

**SECTION II**  
**AGRICULTURE CATEGORY**  
**FIVE-YEAR IMPLEMENTATION PLAN**  
**July 2003 through June 2008**

**A. AGRICULTURE MMs AND ISSUES OF CONCERN**

According to nationwide water quality assessments, the leading cause of water quality impairments are from nonpoint sources of pollution. Out of the six basic categories of NPS pollution, agriculture remains the most significant contributor to these impairments. Pollution from agriculture includes nutrients, sediments, salts, pesticides, hydrocarbons, and animal waste. The NPS Program includes seven MMs for the control of pollution related to agriculture. These MMs are listed in Table IIA, below, and more completely described in Appendix II of this document.

**Table IIA**  
**Agriculture Category MMs**

<b>MM Code</b>	<b>Agriculture MM Title</b>
1A	Erosion and Sediment Control
1B	Facility Wastewater and Runoff from Confined Animal Facilities
1C	Nutrient Management
1D	Pesticide Management
1E	Grazing Management
1F	Irrigation Water Management
1G	Education/Outreach
1H	Agricultural Used Oil/Waste Management (new)

Due to the fact that California ranks number one in the country in agricultural production, the State has a high potential for water-quality problems related to agricultural activities. Furthermore, California is host to a wide variety of climates and geography. The consequence of this variety is an assortment of complex dilemmas related to agricultural runoff. For example irrigation return flows entering the Salton Sea are the only source that prevents the sea from evaporating. The Salton Sea is considered to be important habitat for migratory birds, yet these irrigation flows are laden with nutrients, sediment, and pesticides. Agriculture MMs designed to control runoff would limit irrigation return flows, which in this Region, would in turn cause the Salton Sea to dry up. This environmental Catch-22 is just one of the many plights faced by NPS water quality managers in California.

Improper management of manure produced at Confined Animal Facilities (CAFs) such as dairies, feedlots, and poultry operations can result in adverse impacts to surface water, groundwater, and air. The impacts can come from the livestock housing and waste storage facilities or from cropland where the animal waste is applied for fertilization of cropland.

## **B. RELATION TO OTHER SWRCB PROGRAMS**

### **1. Waste Discharge Requirements and Conditional Waiver Policies**

Section 13260 of the California Water Code (CWC) requires any person discharging waste or proposing to discharge waste “that could affect the quality of the waters of the state” to file a report of waste discharge (RWD). However, no RWD need be filed if the requirement is waived pursuant to Section 13269 of the CWC. Following receipt of a RWD, a RWQCB can issue WDRs that prescribe how the discharge is to be managed.

Wastewater discharges from irrigated land including stormwater runoff, irrigation tailwater, and tile drainage are subject to regulation under the CWC. However, the RWQCBs have historically exempted farmers from the requirement to file a RWD and regulated the discharge from cropland under NPS programs that relied on MPs to protect water quality. In 1999, several environmental groups initiated a suit challenging the validity of the waiver program for discharges from cropland in the Central Valley, which comprises 75% of California’s irrigated lands.

On 5 December 2002, the Central Valley Regional Water Quality Control Board (RWQCB5) adopted a new Conditional Waiver for discharges to surface waters from irrigated lands including nurseries and managed wetlands. The Conditional Waiver establishes numerous requirements that apply to farmers and others such as irrigation and reclamation districts that discharge wastewater and runoff from irrigated cropland.

The RWQCB5 also committed to preparing a 10-year implementation program for the regulation of waste discharge from irrigated lands and to undertake a two-year Environmental Impact Report (EIR) process to analyze the potential significant adverse impacts of the waiver program.

As part of the current focus on water that could be impacted by discharges from cropland, the University of California at Davis (UCD) has begun sampling irrigation drains in the Central Valley under contract with the RWQCB5. Sampling began in March 2003, and will continue through September 2003. Twenty-four sites will be sampled for toxicity. If toxicity is found, additional sampling will occur to identify the cause of the toxicity.

### **2. NPDES and NPS for CAFs/CAFOs**

In 1982 most Regional Water Quality Control Boards adopted a conditional waiver from the need to file for Confined Animal Facilities (CAFs) to file a RWD as required by Title 27 of the Code of California Regulations (CCR). The waivers that applied to CAFs ended in January 2003 pursuant to Senate Bill 390. Some RWQCBs may adopt a new conditional waiver policy for Animal Feeding Operations (AFOs), the RWQCB5 is expected to adopt a permitting program instead of regulating the CAFs under an NPS program. In addition, under new federal regulations that became effective in March 2003, large CAFs (identified in federal regulations as concentrated animal feeding operations or “CAFOs”) are subject to National Pollutant Discharge Elimination System (NPDES) permits.

The NPDES permits apply to both the facilities and the associated cropland. However, if the animal wastes are applied to cropland in accordance with an approved Nutrient Management Plan (NMP), stormwater runoff from the cropland is not subject to regulation under the NPDES permit. That is not the case with WDRs that a RWQCB may issue to the dairy. The WDRs do not allow any discharge that can adversely impact water quality.

The effect of the new permitting programs for CAFs will be that facility wastewater and runoff will be increasingly regulated as point source discharges instead of NPS discharges. However, it will be difficult to differentiate the effects of stormwater runoff from cropland at a CAF where animal wastes are used for fertilization and runoff from nearby cropland where commercial fertilizers are utilized. If CAFs are present in a watershed, monitoring programs developed as part of a NPS programs may need to be modified to provide for assessing the relative contribution of discharges from the CAFs.

### 3. Impaired 303(d) Lists and TMDLs

Under Section 303(d) of the Clean Water Act, California is required to compile a list of impaired waters that fail to meet applicable water quality standards or that cannot support their designated beneficial uses. This list, called a '303(d) list' is submitted to Congress every two years, and California is required to develop a Total Maximum Daily Load (TMDL) for each pollutant causing impairment to the waterbodies that are listed. The 2002 303(d) list identifies 518 waterbodies in California that are impaired due to NPS pollution. Of those 518, 205 waterbodies are listed for impairments from agricultural sources. These 205 waterbodies represent 30% of all listed waterbodies impaired by point and nonpoint sources of pollution.

Total Maximum Daily Loads (TMDLs) are being developed and implemented throughout the state for every Agriculture MM. These TMDLs will play a critical role in restoring water quality in waters impaired by agriculture related pollutants.

## C. ADDITIONAL MANAGEMENT MEASURE PROPOSAL

For the first time since the adoption of the NPS Program Plan, an additional Management Measure (MM) has been proposed. The California Integrated Waste Management Board (CIWMB) submitted the proposal. A process for proposing an additional MM was developed by SWRCB staff, and the Agriculture Subcommittee of the IACC voted to include CIWMB's proposed Management Measure in the 2003-2008 5-Year Plan. The proposed Management Measure is as follows;

### **Title: Agricultural Used Oil/Hazardous Waste Management**

The implementation of this MM is intended to reduce contamination of surface water from improper storage and disposal of used oil and hazardous waste generated from agricultural equipment and machinery maintenance. Implementation includes the installation and maintenance of used oil and hazardous material collection facilities for agricultural growers.

Prior to 1995, small acreage growers (1-499 acres) did not have access to convenient oil collection facilities. They generated too little used oil and oil filters to justify paying a hauler for collection but generated too much to dispose of their oil and filters at certified used oil collection centers. From 1995 to the present, the CIWMB has given counties and non-profits grant funds to establish agricultural used oil facilities (at oil distributors, transfer stations and other sites) or mobile used oil collection programs for growers. Twenty-five counties currently offer growers permanent or mobile agricultural used oil collection and have collected over 160,000 gallons of used oil to date. Agricultural used oil collection programs are currently being implemented in an additional five counties. Without these programs, this oil would have continued to be stockpiled on growers' property with the potential to leach into ground water and waterways.

The new MM is expanded to cover pollution issues similar to waste oil to those of other agriculture-use fuels and hazardous material waste.

## **D. OBJECTIVES AND ACTIVITY SUMMARY**

### **1. Agriculture Category Objectives**

The State of California recently undertook a concerted, collaborative process for the development of Category Objectives for the NPS Implementation Plan 2003-2008. Over a period of approximately one year, the Statewide Interagency Coordinating Committee met frequently to consider the missions of each agency relative to sources of pollution in agriculture; to formulate a means for collaboration, and to set overall objectives for the collaborative process. The result of this effort, which will formulate the focus of California relative to Agriculture NPS pollution prevention, are the Agriculture Category Objectives, which are listed below. These Objectives will serve to guide and measure the progress that will be made over the next five years.

- a) More efficiently use existing resources by continuing to improve upon and expand current interagency coordination in order to more effectively manage agricultural pollution (including monitoring and enforcement mechanisms).
- b) Develop information on the overall effectiveness of MP implementation on improving water quality.
- c) Develop and implement TMDLs for waterbodies impaired by agricultural sources.
- d) Continue to promote outreach and education and provide technical assistance to the agricultural community.
- e) Continue to assess waterbodies, identify sources of NPS impacts from agricultural land, and increase the number of inspections of potential sources.
- f) Develop watershed based plans and target the implementation of management measures and practices to address impacts from agricultural land uses.

Further clarification of the intent of these objectives is provided in Appendix III.

### **2. Activity Summary for Agriculture Category**

The agriculture related activities (listed in Table IIB address all of the identified MMs for Agriculture. The two MMs that have the most planned activities taking place are 1A: Erosion and Sediment Control, and 1G: Outreach and Education. There are also many activities planned for the next five years that address all MMs in the Agriculture category. Additionally, the six Agriculture Category Objectives (listed in Section IID, above) are fully supported by the activities in this category.

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

**Agriculture**

<b>Management Measure: 1A Erosion and Sediment Control</b>						
<b>Process Element</b>	<b>Activity Name</b>	<b>Activity Objective and Description</b>	<b>Agency</b>	<b>Location</b>	<b>Success Criteria</b>	<b>Schedule</b>
Pre-Implementation 10.090	Plymouth Area Vineyard and Erosion Control	<p><b>Objective:</b> Protect Pigeon, Big Indian and Little Indian Creeks' and the South Fork Cosumnes River surface and shallow subsurface water quality to ensure a safe drinking water supply for Plymouth and enhancement of Cosumnes River water quality.</p> <p><b>Description:</b> Project components include: (1) Assessment of the impacts of erosion and associated sediment, pesticide and nutrient transport from vineyards, (2) Assessment of the efficacy of current (voluntary) erosion control practices, and suggested erosion control measures on tests in vineyards on slopes of these basins. (3) Development of BMPs for vineyards on steep slopes within these basins based on the results of (2), and on practices used in other grape-growing areas.</p>	RWQCB-5S	Regionwide RB5	Completed assessment on BMPs for vineyards on steep slopes	7/1/04 to 2/28/07
Pre-Implementation 11.41	Topaz Lake Sediment TMDL	<p><b>Objective:</b> watershed restoration through the TMDL program</p> <p><b>Description:</b> Complete and implement the TMDL</p>	RWQCB-6	Mono County	completed TMDL	1/1/04 to 1/1/07
Pre-Implementation 11.47	West Walker River Sediment TMDL	<p><b>Objective:</b> watershed restoration through the TMDL program</p> <p><b>Description:</b> Complete and implement the TMDL</p>	RWQCB-6	Mono County	completed TMDL	1/1/05 to 1/1/10

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Pre-Implementation 14.003	Imperial Valley Ag Drains Sediment TMDL	<p><b>Objective:</b> To develop a Sediment TMDL for the Imperial Valley Agricultural Drains (IVAD) discharging directly into the Salton Sea</p> <p><b>Description:</b> To develop a TMDL that will include a sediment numeric target for the IVAD, sources and concentrations of sediments, and an implementation plan. This activity is intended to reduce sediment concentrations in the Imperial Valley Agricultural Drains that drain directly into the Salton Sea. Staff has begun monitoring activities. Source analysis, allocations, implementation plan, economic analysis, CEQA and NES, peer review, public review, and Regional Board hearing are expected to be completed by early 2004.</p>	RWQCB-7	Regionwide RB7	Completion of the TMDL	1/1/02 to 12/1/04
Pre-Implementation 2.019-2	MAA and WQMP with BLM	<p><b>Objective:</b> Continue development of MAA and WQMP with the Bureau of Land Management.</p> <p><b>Description:</b> Facilitate meetings, and negotiate terms of MAA and appropriate WQMP with BLM staff</p>	SWRCB	Statewide, BLM lands	Completed MAA and WQMP	7/1/03 to 6/30/08
Pre-Implementation 2.030-1	Performance for Sustainability Vineyard/Winery Workgroup	<p><b>Objective:</b> To enhance environmental protection by convening a partnership devoted to applying the principle of sustainable development in California wine production.</p> <p><b>Description:</b> Develop a model for incorporating sustainability principles into localized decision making.</p>	SWRCB	Unknown at this time	Partnership results in implementation of sustainable vineyard/winery practices in California	7/1/03 to 6/30/08
Pre-Implementation 27.012-2	RCD Watershed Coordinator Grants - Phase III	<p><b>Objective:</b> Document progress achieved with phase III of Resource Conservation Districts (RCD) watershed coordinator grants.</p> <p><b>Description:</b> Administer RCD watershed coordinator grant program to provide funding to California RCDs to hire watershed coordinators.</p>	DOC	Statewide	Performance measures completed in individual RCD watershed coordinator grants.	7/1/03 to 6/30/08

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Pre-Implementation 4.004	Napa River Watershed Task Force	<b>Objective:</b> Advising to watershed group with technical advice, proposal, report reviews, public meetings and hearings.  <b>Description:</b> Participation on Technical Advisory Committee, reviews proposals, work with stewardship groups for sulfur and Carneros watersheds, public meetings, etc.	RWQCB-2	Napa County	Proposals that are funded, streamlined permit review and approval, County ordinances on setbacks.	7/1/03 to 6/1/08
Pre-Implementation 4.010	Ag Water Quality Protection Program	<b>Objective:</b> Work with partners in developing water quality program  <b>Description:</b> Form watershed working groups, develop individual farm plans, implement BMP's, and develop and implement monitoring.	RWQCB-2	San Mateo County	Developed farm plans and implemented BMPs	7/1/03 to 12/31/04
Pre-Implementation 4.087-1	TMDL for Pathogens, Sonoma Creek	<b>Objective:</b> Develop TMDL for mercury in San Francisco Bay  <b>Description:</b> Preliminary and final reports and prepare Basin Plan amendment	RWQCB-2	Sonoma County	Reports and Basin Plan amendment	6/30/04 to 4/30/06
Pre-Implementation 4.089-1	TMDL for Siltation, Tomales Bay	<b>Objective:</b> Develop TMDL for sediments for Tomales Bay  <b>Description:</b> Develop TMDL for sediment from agricultural lands and tributaries to Tomales Bay	RWQCB-2	Marin County	Reports and Basin Plan amendment	6/30/04 to 12/31/06
Pre-Implementation 4.090-1	TMDL for Siltation, Walker Creek	<b>Objective:</b> Develop TMDL for sediments for Walker Creek  <b>Description:</b> Develop TMDL for sediment from agricultural lands on Walker Creek, major tributary to Tomales Bay	RWQCB-2	Marin County	Reports and Basin Plan amendment	6/30/05 to 4/30/07

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Pre-Implementation 4.091-1	TMDL for Mercury, Walker Creek	<b>Objective:</b> Develop TMDL for mercury for Walker Creek  <b>Description:</b> Develop TMDL for mercury from old mercury mine in upper watershed of Walker Creek, major tributary to Tomales Bay	RWQCB-2	Marin County	Reports and Basin Plan amendment	7/1/03 to 3/31/05
Pre-Implementation 4.092-1	TMDL for Siltation, Petaluma River	<b>Objective:</b> Develop TMDL for sediments in Petaluma River watershed  <b>Description:</b> Develop TMDL for sediment from agricultural activities (dairies, ranching, vineyards)	RWQCB-2	Sonoma County	Reports and Basin Plan amendment	7/1/04 to 6/30/07
Pre-Implementation 8.005-2	Arroyo Pasajero CRMP - Domingene Watershed Assessment	<b>Objective:</b> Provide technical assistance to the development of the Domingene Watershed Assessment  <b>Description:</b> Provide technical assistance to the CRMP in the development of the Domingene Watershed Assessment	RWQCB-5F	Westside of Tulare Lake Basin	Completion of the Watershed Assessment	12/31/03 to 12/31/05
Implement 14.001	Alamo River Sediment TMDL Implementation	<b>Objective:</b> To implement the Alamo River Sediment TMDL  <b>Description:</b> TMDL implementation activities that include monitoring, site visits, assessments of BMPs, and reporting these activities are ongoing and will continue for the next 13 years	RWQCB-7	Regionwide RB7	Implementation of the TMDL	1/1/02 to 1/1/14
Implement 14.002	New River Sediment TMDL Implementation	<b>Objective:</b> To implement the New River Sediment TMDL  <b>Description:</b> TMDL implementation activities that include monitoring, site visits, assessments of BMPs, and reporting are ongoing and will continue for the next 13 years	RWQCB-7	Regionwide RB7	Implementation of the TMDL	1/1/03 to 1/1/14

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Implement 19.001	Agricultural Erosion Control	<p><b>Objective:</b> General objective of having growers consider use of compost/mulch for soil erosion control and for improving soil health.</p> <p><b>Description:</b> Disseminate information on use of urban-derived compost/mulch for erosion control and soil improvement at trade shows, RCD meetings, conferences, etc. Information based on: 1) completed CIWMB erosion control projects in Calleguas Creek watershed, Napa County hillside vineyard, Sonoma County hillside vineyard; 2) completed CIWMB compost demonstration projects in Salinas Valley, Pajaro River watershed, and other areas (see <a href="http://www.ciwmb.ca.gov/Organics">http://www.ciwmb.ca.gov/Organics</a>); 3) ongoing contract with CDFA's Fertilizer Research and Education Program.,</p>	CIWMB	Statewide	Increased purchase of urban-derived compost and mulch by growers	7/1/03 to 6/30/08
Implement 19.002-1	Napa Vineyard Erosion Control Watershed Project	<p><b>Objective:</b> Using compost and mulch in hillside vineyard growing operations to mitigate erosion of sediments into local watershed.</p> <p><b>Description:</b> Promote systematic use of compost and mulch to vineyards in Napa Watershed and disseminate outreach information on application techniques.</p>	CIWMB	Napa	Increased utilization of compost and mulch in normal vineyard growing operations.	7/1/03 to 7/1/05
Implement 3.12-1	Fish Friendly Farming	<p><b>Objective:</b> Promote vineyard construction, operation, and maintenance in a manner that is protective of water quality - to improve water quality and to restore and sustain habitat for federally listed salmonids.</p> <p><b>Description:</b> outreach/educational activities; farm conservation plan review; site inspections</p>	RWQCB-1	Sonoma and Mendocino Counties	Improved water quality	1/1/02 to 6/30/08

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Implement 4.001-1	TMDL for siltation, Napa River	<b>Objective:</b> Develop and implement TMDL for siltation at Napa River Watershed  <b>Description:</b> Develop and implement TMDL for siltation in Napa River Watershed	RWQCB-2	Napa County	Completed TMDL, project report, final report, Basin Plan amendment.	7/1/03 to 5/31/05
Implement 4.002-1	TMDL for siltation, Sonoma Creek	<b>Objective:</b> Develop and implement TMDL for siltation in Sonoma Creek  <b>Description:</b> Develop and implement TMDL for siltation in Sonoma Creek Watershed	RWQCB-2	Sonoma Creek Watershed	Preliminary and final project reports, Basin Plan amendment	7/1/03 to 6/30/05
Implement 4.007-1	TMDL for Siltation, Pescadero Butano	<b>Objective:</b> Develop and implement TMDL for siltation in Pescadero and Butano watersheds  <b>Description:</b> Develop and implement TMDL for siltation in Pescadero/Butano Watersheds	RWQCB-2	San Mateo County	Preliminary and final project reports, Basin Plan amendment	7/1/04 to 6/30/07
Implement 4.008-1	TMDL for Siltation, Lagunitas Creek	<b>Objective:</b> Develop and implement TMDL for siltation at Lagunitas Creek  <b>Description:</b> Develop and implement TMDL for Lagunitas Creek	RWQCB-2	Lagunitas Creek	Preliminary and final project reports, Basin Plan amendment	6/1/04 to 4/30/07
Implement 4.009-1	TMDL for Siltation, San Gregorio Creek	<b>Objective:</b> Develop and implement TMDL for siltation at San Gregorio Creek  <b>Description:</b> Develop and implement TMDL for San Gregorio Creek	RWQCB-2	San Gregorio Creek	Preliminary and final project reports, Basin Plan amendment	7/1/04 to 6/30/07

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Implement 4.013-1	Manage contract on citizen monitoring	<b>Objective:</b> Oversight of contract to do citizen monitoring and to implement restoration project(s) to reduce sediment loading.  <b>Description:</b> Grant to do citizen monitoring in the watershed related to nonpoint source pollution, including sedimentation and urban runoff	RWQCB-2	Marin County	Citizen monitoring teams created, sediment control project completed	7/1/03 to 12/31/05
Implement 4.017-2	Confined Animal Facilities Inspections	<b>Objective:</b> Yearly inspections and ratings; Database updates  <b>Description:</b> Perform inspections of confined animal facilities, projected to occur every 2 years on average	RWQCB-2	Sonoma and Marin Counties	Facilities inspected and in compliance	7/1/03 to 12/31/08
Implement 4.018-3	Confined Animal Facilities Enforcement Activities	<b>Objective:</b> Ensure compliance with confined animal facility regulations  <b>Description:</b> Conduct enforcement actions as needed, and create summary reports on compliance status. Facility inspections are anticipated to lead to phased compliance schedules.	RWQCB-2	Sonoma and Marin Counties	Compliance with regulations	7/1/03 to 12/31/04
Implement 4.031-2	Manage contract on grazing practices	<b>Objective:</b> Oversight of contract to address grazing practices and pollution prevention  <b>Description:</b> Oversee contract and product development	RWQCB-2	Alameda County	Completion of erosion control projects, field tours.	7/1/03 to 6/30/04
Implement 4.033-1	Manage contract for sediment reduction in Sonoma Creek	<b>Objective:</b> Oversee contract to complete sediment reduction projects along Sonoma Creek  <b>Description:</b> Project will implement three sediment reduction projects and develop sediment budget for TMDL on Sonoma Creek	RWQCB-2	Sonoma County	Completion of projects	7/1/03 to 3/30/05

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Implement 4.078-1	Manage contract for vineyard certification program	<p><b>Objective:</b> Oversight of contract that will develop a vineyard certification program in Napa County</p> <p><b>Description:</b> The Napa RCD will implement a vineyard operator certification program similar to the successful "Fish Friendly Farming" program on the North Coast. Vineyard operators will be given planning courses and develop individual facility plans that will be implemented through specific conservation practices.</p>	RWQCB-2	Napa County	Reduction in sediment to creeks	7/1/03 to 12/31/06
Implement 4.084-1	Manage contract on Lagunitas Creek watershed improvement	<p><b>Objective:</b> Oversee contract on development of limiting factors for salmonid fishery on prime coho salmon stream and implementation of erosion control projects</p> <p><b>Description:</b> This project will implement erosion and sediment control projects on San Geronimo and Lagunitas Creeks and conduct a limiting factors assessment to support upcoming TMDLs</p>	RWQCB-2	Marin County	Projects implemented, limiting factors identified	7/1/03 to 12/31/06
Implement 5.125-2	Assist BMP implementation on state and federal lands	<p><b>Objective:</b> Optimize effectiveness of erosion control and grazing BMPs on public lands to assure water quality protection and to provide example of implementation for private land owners.</p> <p><b>Description:</b> Assist state and federal agencies in developing, implementing and evaluating the effectiveness of water quality plans for public lands.</p>	RWQCB-3	Regionwide RB3	Improved surface water discharge/runoff from public lands	7/1/03 to 6/30/08

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Implement 8.001	Panoche Silver Creek CRMP low flow crossing	<b>Objective:</b> Provide technical support for erosion control low flow crossing installation  <b>Description:</b> Provide technical assistance for the installation of a low flow crossing to reduce down stream sedimentation and erosion and to preserve upstream and downstream restoration projects	RWQCB-5F	Panoche-Silver Creek Watershed	Completed crossing; Reduced sedimentation; Preservation of restoration projects.	8/1/03 to 6/30/08
Implement 9.019-2	Upper Pit River Watershed Enhancement and Protection Program	<b>Objective:</b> Riparian restoration and fencing projects.  <b>Description:</b> Riparian restoration and fencing projects	RWQCB-5R	Regionwide RB8	Enhanced riparian function and habitat. Installation of protective fencing	7/1/03 to 6/30/08
Track/Monitor 4.003	SWAMP Monitoring	<b>Objective:</b> Generating water quality information for all watersheds in the San Francisco Bay Region within the next 5 to10 years  <b>Description:</b> Monitor in 3 to 12 watersheds (of about 50- 100 square miles) based on staffing and funding	RWQCB-2	Regionwide RB2	Completion of water quality monitoring programs in target watersheds	7/1/03 to 6/30/08
Track/Monitor 4.006	Manage contract for Dairy Mgmnt & Riparian Protection	<b>Objective:</b> Oversight of contract for implementation of dairy waste management projects and projects directed towards riparian corridor protection.  <b>Description:</b> Improvements in areas of corral/dry-lot drainage, manure storage area roofing, and gutter installations	RWQCB-2	Marin County	Completed projects	7/1/03 to 3/31/05

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Track/Monitor 6.022	McGrath Lake Watershed Phase I	<p><b>Objective:</b> To reduce sediment and contaminant loading of McGrath Lake and the Santa Clara River.</p> <p><b>Description:</b> Reconfigure large ag drain, plant native vegetation, and construct detention basins to divert sediment-laden storm flows from entering McGrath Lake, a highly contaminated back-dune coastal lake in the process of being restored. Conduct effectiveness monitoring. Early action project from management plan in development.</p>	RWQCB-4	Ventura County	Construction of detention basin and continued monitoring.	7/1/03 to 6/30/06
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**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

<b>Management Measure: 1B Facility Wastewater and Runoff from Confined Animal Facilities</b>						
<b>Process Element</b>	<b>Activity Name</b>	<b>Activity Objective and Description</b>	<b>Agency</b>	<b>Location</b>	<b>Success Criteria</b>	<b>Schedule</b>
Pre-Implementation 10.082	Prevent Contaminants from AFO's from entering drinking water	<p><b>Objective:</b> Reduce threats to drinking water quality from AFO's in the San Joaquin basin.</p> <p><b>Description:</b> Monitor ground and surface water contaminants from AFOs; Determine abundance and source of drinking water contaminants (pharmaceuticals, pathogens, nutrients)</p>	RWQCB-5S	San Joaquin watershed	Improved wastewater application practices on at least 60 dairies.	2/1/02 to 3/15/05
Pre-Implementation 2.007	Interagency Confined Animal Coordination Group	<p><b>Objective:</b> Coordinate monthly Interagency Confined Animal Coordination Group meetings and distribute related information to stakeholders.</p> <p><b>Description:</b> Hold periodic interagency meetings to evaluate waste management activities within different animal feeding operation (AFO) sectors and to encourage facility operators to comply with applicable regulations.</p>	SWRCB	Statewide	Compliance by AFO operators with applicable environmental regulations.	7/1/03 to 1/31/06
Pre-Implementation 2.009	Emergency Animal Disposal	<p><b>Objective:</b> Develop guidance document on disposal of animal mortality related to a disease outbreak</p> <p><b>Description:</b> Participate in the Emergency Animal Disposal (EAD) group within Cal-EPA to coordinate carcass disposal practices in the event of a catastrophic event.</p>	SWRCB	Statewide	Guidance is disseminated and utilized	7/1/03 to 6/30/08

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Pre-Implementation 2.010-1	Performance for Sustainability - Confined Animals	<p><b>Objective:</b> Participate in the Performance for Sustainability (PFS) group within Cal-EPA to identify non-regulatory methods for achieving enhanced environmental protection at animal feeding operations (AFOs).</p> <p><b>Description:</b> Evaluate non-regulatory measures that will achieve compliance with environmental regulatory requirements at AFOs.</p>	SWRCB	Statewide	Suitable non-regulatory methods for achieving compliance are identified and promulgated.	7/1/03 to 12/31/05
Pre-Implementation 33.001	Partnership Agreement (CA Dairy Quality Assurance Program)	<p><b>Objective:</b> Support and participate in Sonoma-Marín Animal Waste Committee, Dairy Waste Management Partnership Agreement (California Dairy Quality Assurance Program) and producer training through UC.</p> <p><b>Description:</b> Complete dairy waste management training of 50 percent of CDFA inspectors.</p>	DFA	Statewide	Under the Partnership Agreement, complete dairy waste management training	7/1/03 to 6/30/05
Pre-Implementation 4.015-1	Marin-Sonoma Animal Resources Committee	<p><b>Objective:</b> To provide technical assistance to Sonoma-Marín Animal Resources Committee</p> <p><b>Description:</b> Technical input and regulatory oversight related to dairies and other confined animal facilities</p>	RWQCB-2	Marin and Sonoma Counties	Communications with dairy producers	7/1/03 to 12/31/08
Pre-Implementation 4.020-1	TMDL for Pathogens, Petaluma River	<p><b>Objective:</b> Develop and implement TMDL for pathogens in Petaluma River</p> <p><b>Description:</b> Develop and implement TMDL for Petaluma River</p>	RWQCB-2	Sonoma County	Preliminary and final reports, Basin Plan amendment	6/30/04 to 4/30/06

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Pre-Implementation 4.081	Manage contract on bacterial source ID	<b>Objective:</b> Oversee contract to address sources of bacterial contamination that cause beach closures  <b>Description:</b> This project will address ocean beach and creek closures from pathogens by identifying sources and implementing projects to abate the source pollution. A TMDL is proposed for this watershed in future.	RWQCB-2	San Pedro Creek watershed	Identification of pathogen sources and determination of measures to address	7/1/03 to 12/31/06
Pre-Implementation 4.087-2	TMDL for Pathogens, Sonoma Creek	<b>Objective:</b> Develop TMDL for mercury in San Francisco Bay  <b>Description:</b> Preliminary and final reports and prepare Basin Plan amendment	RWQCB-2	Sonoma County	Reports and Basin Plan amendment	6/30/04 to 4/30/06
Implement 10.010	Improving Dairy Waste Application Practices	<b>Objective:</b> Improving dairy waste application practices to protect groundwater quality in the San Joaquin valley  <b>Description:</b> Secure voluntary implementation of NPS management measures by providing one-on-one mentoring to dairy operators to help them modify wastewater application systems so that they can properly apply their lagoon water to cropland	RWQCB-5S	East Stanislaus County	Implementation of BMPs	7/1/03 to 12/31/04
Implement 10.077	Dairy Nutrient Management	<b>Objective:</b> Reduce the impact of nitrate and salts from California's dairies on water quality in the Upper San Joaquin Valley drainage basin  <b>Description:</b> Secure voluntary implementation of non-point source (NPS) management measures to improve ground and surface water quality, to the benefit of drinking water supplies. Specifically the focus is in the Northern San Joaquin Valley drainage basin where dairy facilities are located on leachable soils with shallow groundwater that are hydrologically connected to the Bay-Delta or municipal and domestic water supply wells.	RWQCB-5S	San Joaquin watershed	Improved wastewater application practices on at least 30 dairies.	7/1/04 to 6/30/06

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 2.012-1	Database/MOU with DFA	<p><b>Objective:</b> Develop a statewide database of information on AFOs and work with the Department of Food and Agriculture to develop a Memorandum of Understanding for periodic transfer of information to maintain the accuracy of the database.</p> <p><b>Description:</b> Develop a database of information on animal feeding operations (AFOs). CDFA has information that the SWRCB and RWQCBs can use in their regulatory programs for AFOs. In the past, DFG has been reluctant to provide the information to the SWRCB or RWQCBs. An MOU is needed to ensure that CDFA provides the information, and a database is needed to make the information available and useful.</p>	SWRCB	Statewide	MOU is developed and implemented. Database is developed and maintained	7/1/03 to 6/30/08
Implement 4.014-1	Manage contract on equestrian manure management	<p><b>Objective:</b> Oversee contract on equestrian manure management</p> <p><b>Description:</b> Contract will implement equestrian Waste Management Demo Sites and develop a Manure Management Strategy.</p>	RWQCB-2	Alameda, Marin, San Mateo, Sonoma Counties	Completion of demonstration sites, preparation of fact sheets and articles	7/1/03 to 12/31/03
Implement 4.016-1	Confined Animal Facility Permit and Waivers	<p><b>Objective:</b> Increase enforcement of AFOs, through Animal Waste Facility Permits and Waivers</p> <p><b>Description:</b> Develop Animal Waste Facility Permit and Waivers.</p>	RWQCB-2	Marin and Sonoma Counties	Completion of dairy waivers, WDRs, issuance of permits to facilities that do not meet waiver conditions.	7/1/03 to 12/31/04
Implement 4.017-1	Confined Animal Facilities Inspections	<p><b>Objective:</b> Yearly inspections and ratings; Database updates</p> <p><b>Description:</b> Perform inspections of confined animal facilities, projected to occur every 2 years on average</p>	RWQCB-2	Sonoma and Marin Counties	Facilities inspected and in compliance	7/1/03 to 12/31/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 4.018-1	Confined Animal Facilities Enforcement Activities	<b>Objective:</b> Ensure compliance with confined animal facility regulations  <b>Description:</b> Conduct enforcement actions as needed, and create summary reports on compliance status. Facility inspections are anticipated to lead to phased compliance schedules.	RWQCB-2	Sonoma and Marin Counties	Compliance with regulations	7/1/03 to 12/31/04
Implement 4.019-1	TMDL for Pathogens, Napa River	<b>Objective:</b> Develop and implement TMDL for pathogens on the Napa River  <b>Description:</b> Develop and implement TMDLs for Napa River and Sonoma Creek	RWQCB-2	Napa County	Completion of TMDL	6/1/04 to 4/30/06
Implement 4.021-1	TMDL for Pathogens, Tomales Bay	<b>Objective:</b> Develop and implement TMDL for pathogens on Tomales Bay  <b>Description:</b> Develop and implement TMDL for Tomales Bay	RWQCB-2	Marin County	Final report, Basin Plan amendment	7/1/03 to 11/30/03
Implement 5.123	Evaluate confined animal facilities for BMPs	<b>Objective:</b> Implementation of BMPs to reduce or eliminate water quality impacts associated with confined animal facilities  <b>Description:</b> Inspect facilities and evaluate BMP implementation summary reports to determine implementation and effectiveness of BMPs	RWQCB-3	Regionwide RB3	Zero contaminated discharge of runoff water to surface waters	7/1/03 to 6/30/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Track/Monitor 10.015	Confined Animal Facility Compliance and Enforcement	<p><b>Objective:</b> Ensure that confined animal facilities do not cause water quality impacts.</p> <p><b>Description:</b> Inspections, responding to complaints, and taking enforcement actions. Cases are taken to the dairy enforcement task unit - made up of representatives from the attorney general's office, the US attorney's office and the county district attorney's office. When all other efforts at controlling NPS pollution fail, the Regional Board will pursue legal prosecution of the responsible parties.</p>	RWQCB-5	Central Valley	Completed inspections. Review of self monitoring reports. Enforcement action, if necessary	7/1/03 to 6/30/08
Track/Monitor 6.004	Stream Team/Horse and Stable BMPs Project	<p><b>Objective:</b> Evaluation of BMPs for horse stable and equestrian facilities.</p> <p><b>Description:</b> This project is a continuation of the citizen water quality monitoring efforts in Malibu Creek Watershed and include site selection and BMPs implementation to reduce runoff from horse stables.</p>	RWQCB-4	Los Angeles County	Water Quality monitoring pre and post for this activity.	4/1/04 to 6/30/05
Track/Monitor 8.004	Confined Animal Facility Compliance and Enforcement	<p><b>Objective:</b> Respond to complaints and conduct compliance inspections</p> <p><b>Description:</b> Includes inspections, responding to complaints, review of reports of waste discharge (WDRs) and taking enforcement actions.</p>	RWQCB-5F	Tulare Lake Basin	Completed compliance inspections; complaint investigations. Review of WDRs. Enforcement action taken	7/1/03 to 6/30/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Report 2.005-1	Evaluate Implemented CAFO Programs at the Regional Level	<b>Objective:</b> Obtain information on RWQCB programs for AFOs  <b>Description:</b> Obtain and summarize information on RWQCB regulatory programs.	SWRCB	Statewide	Information is obtained and presented	7/1/03 to 6/30/08
Report 2.011	Comprehensive Nutrient Management Plans (CNMPs)	<b>Objective:</b> Develop guidance document for nutrient management plans.  <b>Description:</b> Participate in multi-agency workgroup coordinated by the Natural Resources Conservation Service to develop and maintain guidance for preparing Comprehensive Nutrient Management Plans (CNMPs) at AFOs	SWRCB	Statewide	Guidance document is made available for use	7/1/03 to 5/1/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

<b>Management Measure: 1C    Nutrient Management</b>						
<b>Process Element</b>	<b>Activity Name</b>	<b>Activity Objective and Description</b>	<b>Agency</b>	<b>Location</b>	<b>Success Criteria</b>	<b>Schedule</b>
Pre-Implementation 14.005	Salton Sea Nutrients TMDL	<b>Objective:</b> To develop a Nutrients TMDL for the Salton Sea  <b>Description:</b> To develop a TMDL that will include nutrients numeric targets for the Salton Sea, sources and concentrations of nutrients, and an implementation plan	RWQCB-7	Regionwide RB7	Completion of the TMDL	1/1/01 to 12/31/04
Pre-Implementation 2.002	Feed Nutrient Management on Dairy Farms	<b>Objective:</b> Develop guidance for feed management at dairies in order to reduce the nutrient content of the manure that is produced at the facility.  <b>Description:</b> Develop and sign contract so that work can begin	SWRCB	Statewide	Signed contract	7/1/03 to 1/30/05
Pre-Implementation 2.010-2	Performance for Sustainability - Confined Animals	<b>Objective:</b> Participate in the Performance for Sustainability (PFS) group within Cal-EPA to identify non-regulatory methods for achieving enhanced environmental protection at animal feeding operations (AFOs).  <b>Description:</b> Evaluate non-regulatory measures that will achieve compliance with environmental regulatory requirements at AFOs.	SWRCB	Statewide	Suitable non-regulatory methods for achieving compliance are identified and promulgated.	7/1/03 to 12/31/05
Pre-Implementation 27.012-3	RCD Watershed Coordinator Grants - Phase III	<b>Objective:</b> Document progress achieved with phase III of Resource Conservation Districts (RCD) watershed coordinator grants.  <b>Description:</b> Administer RCD watershed coordinator grant program to provide funding to California RCDs to hire watershed coordinators.	DOC	Statewide	Performance measures completed in individual RCD watershed coordinator grants.	7/1/03 to 6/30/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Pre-Implementation 33.006	Effectiveness of Fertilizer Research and Education Program	<b>Objective:</b> To evaluate the effectiveness of Fertilizer Research and Education Program  <b>Description:</b> Survey targeted areas of the agricultural industry to evaluate effectiveness of the Fertilizer Research and Education Program in promoting the environmentally sound use of fertilizing materials.	DFA	Eastside SJV, South Coast	Complete survey - Dec 2006	7/1/03 to 6/30/08
Pre-Implementation 33.007	Evaluation and Assessment of Regulatory Standards	<b>Objective:</b> Evaluate protectiveness to the environment of regulatory standards for arsenic, cadmium and lead in commercial inorganic fertilizers, and assess need for development of standards for other metals of concern and persistent organic pollutants.  <b>Description:</b> Evaluate and assess.	DFA	Statewide	Complete report by December 31, 2004.	7/1/03 to 6/30/08
Pre-Implementation 33.008	Nutrient-Impaired Waterbodies on CWA 303(d) List	<b>Objective:</b> Target nutrient-impaired (as a result of fertilizer use) waterbodies on CWA 303(d) list  <b>Description:</b> Fund research projects for waterbodies impaired by fertilizer contamination	DFA	Eastside SJV, Central Coast, South Coast	Projects are funded	7/1/03 to 6/30/08
Pre-Implementation 33.009	Program Activities	<b>Objective:</b> Coordinate program activities with CDFA Fertilizer Inspection Advisory Board and Technical Advisory Subcommittee.  <b>Description:</b> Coordinate program activities with CDFA Fertilizer Inspection Advisory Board and Technical Advisory Subcommittee.	DFA	Statewide	Attendance at meetings	7/1/03 to 6/30/08
Pre-Implementation 4.015-2	Marin-Sonoma Animal Resources Committee	<b>Objective:</b> To provide technical assistance to Sonoma-Marine Animal Resources Committee  <b>Description:</b> Technical input and regulatory oversight related to dairies and other confined animal facilities	RWQCB-2	Marin and Sonoma Counties	Communication with dairy producers	7/1/03 to 12/31/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Pre-Implementation 4.027-1	TMDL for nutrients, Napa River	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement TMDL for nutrients for Napa River watershed	RWQCB-2	Napa County	Completed TMDL, quantifiable pollutant reduction goals	7/1/03 to 5/30/05
Pre-Implementation 4.089-2	TMDL for Siltation, Tomales Bay	<b>Objective:</b> Develop TMDL for sediments for Tomales Bay  <b>Description:</b> Develop TMDL for sediment from agricultural lands and tributaries to Tomales Bay	RWQCB-2	Marin County	Reports and Basin Plan amendment	6/30/04 to 12/31/06
Implement 10.012-2	Sustainable Cotton Project	<b>Objective:</b> Reduce pesticide and nutrient runoff from cotton operations in the San Joaquin valley.  <b>Description:</b> Implement best management practices on cotton to reduce applications of organophosphate and other pesticides and synthetic fertilizers on cotton crops in priority 1 watersheds in the San Joaquin Valley.	RWQCB-5S	San Joaquin watershed	BMP's implemented.	8/1/01 to 3/31/04
Implement 16.101-1	Dairy Discharge Oversight	<b>Objective:</b> To regulate discharges from all large confined animal feeding operations (CAFOs).  <b>Description:</b> To enforce WDRs for all dairies and some other CAFOs in the San Diego Region.	RWQCB-9	Regionwide - Region 9	Protection and restoration of water quality and beneficial uses in watersheds with CAFO land use activity.	7/1/03 to 6/30/08
Implement 2.012-2	Database/MOU with DFA	<b>Objective:</b> Develop a statewide database of information on AFOs and work with the Department of Food and Agriculture to develop a Memorandum of Understanding for periodic transfer of information to maintain the accuracy of the database.  <b>Description:</b> Develop a database of information on animal feeding operations (AFOs)	SWRCB	Statewide	MOU is developed and implemented. Database is developed and maintained	7/1/03 to 6/30/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 33.003	Fertilizer Research and Education Program	<b>Objective:</b> To provide grants to conduct research, establish demonstration projects, and develop education programs to prevent nutrient contamination of surface and ground water.  <b>Description:</b> Conduct research, outreach, and education for the regulated community through the Fertilizer Research and Education Program.	DFA	Statewide	Number of Workshops; number of publications	7/1/03 to 6/30/08
Implement 33.010	Sampling of Heavy Metals in Fertilizing Materials	<b>Objective:</b> Carry out sampling of heavy metals in fertilizing materials.  <b>Description:</b> Minimum of 150 samples/year of heavy metals in fertilizing materials.	DFA	Statewide	Reported official sample results	7/1/03 to 6/30/08
Implement 4.013-3	Manage contract on citizen monitoring	<b>Objective:</b> Oversight of contract to do citizen monitoring and to implement restoration project(s) to reduce sediment loading.  <b>Description:</b> Grant to do citizen monitoring in the watershed related to nonpoint source pollution, including sedimentation and urban runoff	RWQCB-2	Marin County	Citizen monitoring teams created, sediment control project completed	7/1/03 to 12/31/05
Implement 4.014-3	Manage contract on equestrian manure management	<b>Objective:</b> Oversee contract on equestrian manure management  <b>Description:</b> Contract will implement equestrian Waste Management Demo Sites and develop a Manure Management Strategy.	RWQCB-2	Alameda, Marin, San Mateo, Sonoma Counties	Completion of demonstration sites, preparation of factsheets and articles	7/1/03 to 12/31/03

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 4.016-2	Confined Animal Facility Permit and Waivers	<b>Objective:</b> Increase enforcement of AFOs, through Animal Waste Facility Permits and Waivers  <b>Description:</b> Develop Animal Waste Facility Permit and Waivers.	RWQCB-2	Marin and Sonoma Counties	Completion of dairy waivers, WDRs, issuance of permits to facilities that do not meet waiver conditions.	7/1/03 to 12/31/04
Implement 4.017-3	Confined Animal Facilities Inspections	<b>Objective:</b> Yearly inspections and ratings; Database updates  <b>Description:</b> Perform inspections of confined animal facilities, projected to occur every 2 years on average	RWQCB-2	Sonoma and Marin Counties	Facilities inspected and in compliance	7/1/03 to 12/31/08
Implement 4.018-2	Confined Animal Facilities Enforcement Activities	<b>Objective:</b> Ensure compliance with confined animal facility regulations  <b>Description:</b> Conduct enforcement actions as needed, and create summary reports on compliance status. Facility inspections are anticipated to lead to phased compliance schedules.	RWQCB-2	Sonoma and Marin Counties	Compliance with regulations	7/1/03 to 12/31/04
Implement 4.022-1	TMDL for nutrients, Petaluma River	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement TMDL for nutrients in Petaluma River watershed	RWQCB-2	Sonoma County	Preliminary and final reports, Basin Plan amendment	7/1/04 to 6/30/07
Implement 4.023-1	TMDL for nutrients, Walker Creek	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement TMDL for nutrients in Walker Creek watershed	RWQCB-2	Marin County	Completed TMDL reports, Basin Plan amendment	7/1/04 to 6/30/07

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 4.024-1	TMDL for nutrients, Tomales Bay	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement nutrient TMDL for Tomales Bay	RWQCB-2	Marin County	Preliminary and final TMDL reports, Basin Plan amendment	7/1/04 to 6/30/07
Implement 4.026-1	TMDL for nutrients, Suisun Marsh	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement TMDL for Suisun Marsh	RWQCB-2	Solano County	TMDL preliminary and final reports, Basin Plan amendment	6/1/06 to 6/30/08
Implement 4.028-1	TMDL for nutrients, Sonoma Creek	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement TMDL for nutrients for Sonoma Creek	RWQCB-2	Sonoma County	Completed TMDL, quantifiable pollutant reduction goals	7/1/03 to 6/30/05
Implement 4.084-2	Manage contract on Lagunitas Creek watershed improvement	<b>Objective:</b> Oversee contract on development of limiting factors for salmonid fishery on prime coho salmon stream and implementation of erosion control projects  <b>Description:</b> This project will implement erosion and sediment control projects on San Geronimo and Lagunitas Creeks and conduct a limiting factors assessment to support upcoming TMDLs	RWQCB-2	Marin County	Projects implemented, limiting factors identified	7/1/03 to 12/31/06
Implement 5.121	Evaluate greenhouses for BMPs	<b>Objective:</b> Convert all green house operations to recycling of waste water.  <b>Description:</b> Inspect facilities and evaluate BMP implementation summary reports to determine implementation and effectiveness of BMPs	RWQCB-3	Regionwide RB3	Zero contaminated discharge of green house waste water to surface waters	7/1/03 to 6/30/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Report 2.005-2	Evaluate Implemented CAFO Programs at the Regional Level	<b>Objective:</b> Obtain information on RWQCB programs for AFOs  <b>Description:</b> Obtain and summarize information on RWQCB regulatory programs.	SWRCB	Statewide	Information is obtained and presented	7/1/03 to 6/30/08
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**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

<b>Management Measure: 1D Pesticide Management</b>						
<b>Process Element</b>	<b>Activity Name</b>	<b>Activity Objective and Description</b>	<b>Agency</b>	<b>Location</b>	<b>Success Criteria</b>	<b>Schedule</b>
Pre-Implementation 10.005	SRWP Organophosphate Pesticide Focus Group	<p><b>Objective:</b> Reduce pesticides in the Sacramento River and tributaries through the stakeholder process.</p> <p><b>Description:</b> Participate in focus group to develop a strategy to protect the main stem Sacramento and Feather Rivers from adverse effects of diazinon applied to dormant orchards and other sources. Collaborate with other stakeholder groups, including the SRWP Toxics Subcommittee and others.</p>	RWQCB-5S	Sacramento River Watershed	Agendas prepared and meetings attended. Strategy documents completed.	7/1/03 to 6/30/08
Pre-Implementation 10.035	Sacramento and Feather River Diazinon TMDL	<p><b>Objective:</b> Reduce diazinon in the Sacramento and Feather rivers.</p> <p><b>Description:</b> Implementation to begin in 2004. More information can be found at: <a href="http://www.swrcb.ca.gov/~rwqcb5/programs/tmdl/sac_feather_diaz/index.html">http://www.swrcb.ca.gov/~rwqcb5/programs/tmdl/sac_feather_diaz/index.html</a></p>	RWQCB-5S	Regionwide RB5	Reduction in diazinon concentrations	7/1/03 to 6/30/08
Pre-Implementation 18.006	MAA implementation	<p><b>Objective:</b> Prevent and mitigate threats to ground and surface water quality by coordination with SWRCB and RWQCBs</p> <p><b>Description:</b> Prevent and mitigate threats to ground and surface water quality by coordination with SWRCB and RWQCBs</p>	CDPR	Statewide	Completed MAA	7/1/03 to 6/30/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Pre-Implementation 18.010	Dormant Spray Monitoring	<p><b>Objective:</b> Evaluate effectiveness of vegetated buffer strips and post-application tillage as means to reduce runoff of diazinon dormant spray from treated orchards.</p> <p><b>Description:</b> Collect orchard runoff samples and perform chemical analysis for diazinon. Adequate flow data will be collected to allow for the calculation of mass loads in the runoff from study plots.</p>	CDPR	Butte County	Completed sampling and analysis of data	5/25/02 to 9/1/04
Pre-Implementation 18.011	Correlation Analysis	<p><b>Objective:</b> To derive empirical equations to relate pesticides loading in the Sacramento and San Joaquin rivers to the two predictor environmental variables: the precipitation and pesticide use.</p> <p><b>Description:</b> Historic data of SURF (a surface water monitoring database), PUR (Pesticide Use Report), precipitation, and river flow will be queried. A statistical model will be formulated, and subsequently applied to analyze and synthesize the relevant data.</p>	CDPR	Sacramento and San Joaquin Rivers	Compilation and publication of the model	7/1/03 to 2/28/08
Pre-Implementation 18.012	Pyrethroid Monitoring--Central Valley	<p><b>Objective:</b> determine if esfenvalerate and permethrin are moving offsite into surface waters in measurable amounts, and if so, what is the typical range of concentrations that may be observed.</p> <p><b>Description:</b> Monitoring the occurrence and concentration of esfenvalerate and permethrin pyrethroids</p>	CDPR	Sacramento & San Joaquin basins	Completed study and preparation of final report	10/1/03 to 12/31/03
Pre-Implementation 18.013	Pyrethroid Monitoring--Glenn County	<p><b>Objective:</b> The objective of this study is to evaluate the potential for runoff of esfenvalerate from dormant-season applications in prune orchards with managed floors.</p> <p><b>Description:</b> Monitoring of in-field and edge-of-field esfenvalerate concentrations during runoff event.</p>	CDPR	Glenn County	Sufficient rainfall event following pesticide application.	11/11/02 to 9/30/03

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Pre-Implementation 2.014-1	Promote Management Practices	<b>Objective:</b> Reduce pesticides in both agricultural and urban surface waters through local outreach to promote MPs that reduce pesticide runoff and through CDPR's registration process. <b>Description:</b> Fund and assist in pesticide control applicator and grower training promoting pesticide management. Mitigate impacts through self-regulation as well as regulatory authorities of CDPR, SWRCB, and RWQCB.	SWRCB	Statewide	Completion of MP, effective research	7/1/03 to 6/30/08
Pre-Implementation 2.016	Water Quality Sampling Program Review	<b>Objective:</b> Monitor and review the water quality sampling program for control of red imported fire ants. <b>Description:</b> Comment on monitoring results of RIFA pesticide treatments	SWRCB	Statewide	Complete review of monitoring design and results	7/1/03 to 6/30/08
Pre-Implementation 2.017	Process for Responding to Presence of Pesticides.....	<b>Objective:</b> Coordinate with the RWQCBs and CDPR to implement CDPR's new "Process for Responding to the Presence of Pesticides in Surface Water." <b>Description:</b> Continue coordination with CDPR and RBs to ensure the Process meets TMDL implementation needs	SWRCB	Statewide	Consistency of Process with TMDL implementation	7/1/03 to 6/30/08
Pre-Implementation 2.030-2	Performance for Sustainability Vineyard/Winery Workgroup	<b>Objective:</b> To enhance environmental protection by convening a partnership devoted to applying the principle of sustainable development in California wine production. <b>Description:</b> Develop a model for incorporating sustainability principles into localized decision making.	SWRCB	Unknown at tjh time	Partnership results in implementation of susatinable vineyard/winery practices in California	7/1/03 to 6/30/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Pre- Implementation 33.004-1	NPS Pollution in Pest Eradication Programs	<b>Objective:</b> Minimize/avoid NPS pollution in pest eradication programs. Consult with RWQCBs and SWRCB when developing programs. <b>Description:</b> Consultation with Federal, State and local agencies to develop protocol.	DFA	Statewide	Minimized impacts of pesticide treatment.	7/1/03 to 6/30/08
Implement 10.011	BMP Implementation to Mitigate OP Pesticide Runoff	<b>Objective:</b> Determine which practices are effective in reducing pesticide runoff and provide public outreach. <b>Description:</b> Implement management practices in orchard crops to reduce OP pesticide surface water contamination from orchard dormant sprays.	RWQCB-5S	Sacramento River watershed	Implementation of projects.	11/1/01 to 10/31/04
Implement 10.012-1	Sustainable Cotton Project	<b>Objective:</b> Reduce pesticide and nutrient runoff from cotton operations in the San Joaquin valley. <b>Description:</b> Implement best management practices on cotton to reduce applications of organophosphate and other pesticides and synthetic fertilizers on cotton crops in priority 1 watersheds in the San Joaquin Valley.	RWQCB-5S	San Joaquin watershed	BMP's implemented.	8/1/01 to 3/31/04
Implement 10.029	San Joaquin River OP Pesticide TMDL	<b>Objective:</b> Begin implementation of the OP Pesticide TMDL for the San Joaquin River. <b>Description:</b> TMDL implementation is scheduled to start in 2003. More information at: <a href="http://www.swrcb.ca.gov/~rwqcb5/programs/tmdl/sjrop.html">http://www.swrcb.ca.gov/~rwqcb5/programs/tmdl/sjrop.html</a>	RWQCB-5S	Regionwide RB5	Reduction in loads of OP pesticides to Sacramento and Feather Rivers	7/1/04 to 6/30/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 16.101-2	Dairy Discharge Oversight	<b>Objective:</b> To regulate discharges from all large confined animal feeding operations (CAFOS).  <b>Description:</b> To enforce WDRs for all dairies and some other CAFOs in the San Diego Region.	RWQCB-9	Regionwide - Region 9	Protection and restoration of water quality and beneficial uses in watersheds with CAFO land use activity.	7/1/03 to 6/30/08
Implement 18.002-1	Rice Pesticides Program	<b>Objective:</b> Reduce rice pesticide loading in Sacramento and San Joaquin basins  <b>Description:</b> Develop and implement management methods for water in treated fields to reduce or eliminate discharges; develop and implement methods to reduce drift from applications	CDPR	Sacramento & San Joaquin Valleys	No violations of water quality objectives	7/1/03 to 6/30/08
Implement 3.12-3	Fish Friendly Farming	<b>Objective:</b> Promote vineyard construction, operation, and maintenance in a manner that is protective of water quality - to improve water quality and to restore and sustain habitat for federally listed salmonids.  <b>Description:</b> outreach/educational activities; farm conservation plan review; site inspections	RWQCB-1	Sonoma and Mendocino Counties	Improved water quality	1/1/02 to 6/30/08
Implement 4.078-2	Manage contract for vineyard certification program	<b>Objective:</b> Oversight of contract that will develop a vineyard certification program in Napa County  <b>Description:</b> The Napa RCD will implement a vineyard operator certification program similar to the successful "Fish Friendly Farming" program on the North Coast. Vineyard operators will be given planning courses and develop individual facility plans that will be implemented through specific conservation practices.	RWQCB-2	Napa County	Reduction in sediment to creeks, reduction in pesticide use	7/1/03 to 12/31/06

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Track/Monitor 18.005	Surface Water Database	<b>Objective:</b> To maintain the Department of Pesticide Regulation Surface Water Database with environmental monitoring results of pesticides in California surface waters. <b>Description:</b> The Department of Pesticide Regulation maintains a Surface Water Database containing data from a wide variety of environmental monitoring studies, all designed to test for the presence or absence of pesticides in California surface waters. Gather and enter data, update data query pages	CDPR	Statewide	Publication of bi-annual updated Web pages	7/1/03 to 6/30/08
Track/Monitor 18.008	Monitoring Chlorpyrifos and Diazinon--Salinas	<b>Objective:</b> To clarify the linkage between urban and agricultural sources of diazinon and chlorpyrifos and their fate in receiving waters. <b>Description:</b> Measure the concentrations of diazinon and chlorpyrifos in the water column and in sediments at nine sites within the Monterey Bay watershed over a two-year period. Monitoring will be conducted both during the irrigation season and during winter storm events.	CDPR	Lower Salinas River	Completed monitoring and published report	4/22/02 to 3/31/04
Track/Monitor 18.009	Bioassessment research	<b>Objective:</b> To Develop staff familiarity with bioassessment methodology and establish baseline aquatic biological community structure and physical habitat conditions in wadeable, agriculture dominated surface waters. <b>Description:</b> In cooperation with CVRWQCB, DPR will monitor and assess not more than 10 sites in the Sacramento and San Joaquin watershed. A physical habitat assessment will be completed for each reach sampled. Water samples will also be collected from each sampling site and analyzed for selected organophosphates (OPs), esfenvalerate and permethrin (PY), and selected triazines (TRs).	CDPR	Central Valley	Established SOPs, sampling sites, and complete sampling and reporting	4/1/02 to 4/30/04

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Track/Monitor 2.015	Rice Pesticide Management	<b>Objective:</b> Reduce rice pesticide loading in the Sacramento and SJ Rivers by managing water in treated fields so that discharges of pesticide into surface waters do not impair beneficial uses.  <b>Description:</b> Implement rice pesticide MP as specified in permit	SWRCB	Sacramento and San Joaquin River Valleys	Prevention of exceedences of rice pesticide water quality objectives	7/1/03 to 6/30/08
Report 18.001	Groundwater database	<b>Objective:</b> Develop and maintain database on the results of monitoirng of ground water for pesticides  <b>Description:</b> Collect data, verify, enter into database, prepare annual report as required by law	CDPR	Statewide	Preparation of annual report within statutory deadline	7/1/03 to 6/30/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

<b>Management Measure: 1E    Grazing Management</b>							
<b>Process Element</b>	<b>Activity Name</b>	<b>Activity Objective and Description</b>	<b>Agency</b>	<b>Location</b>	<b>Success Criteria</b>	<b>Schedule</b>	
Pre-Implementation 11.27-1	Bridgeport Reservoir Nutrient TMDL	<b>Objective:</b> Watershed restoration through the TMDL process <b>Description:</b> Complete and implement the TMDL	RWQCB-6	Mono County	completed TMDL	7/1/03 to	1/1/05
Pre-Implementation 11.38	Skedaddle Creek Pathogen TMDL	<b>Objective:</b> watershed restoration through the TMDL program <b>Description:</b> Complete and implement the TMDL	RWQCB-6	Lassen County	completed TMDL	1/1/03 to	1/1/06
Pre-Implementation 11.42	Eagle Lake Nutrient TMDL	<b>Objective:</b> watershed restoration through the TMDL program <b>Description:</b> Complete and implement the TMDL	RWQCB-6	Lassen County	completed TMDL	1/1/05 to	1/1/08
Pre-Implementation 11.45	Goodale Creek Sediment TMDL	<b>Objective:</b> watershed restoration through the TMDL program <b>Description:</b> Complete and implement the TMDL	RWQCB-6	Inyo County	completed TMDL	1/1/06 to	1/1/09
Pre-Implementation 11.48	Mill Creek Sediment TMDL	<b>Objective:</b> watershed restoration through the TMDL program <b>Description:</b> Complete and implement the TMDL	RWQCB-6	Modoc County	completed TMDL	1/1/07 to	1/1/10
Pre-Implementation 11.49	Wolf Creek Sediment TMDL	<b>Objective:</b> watershed restoration through the TMDL program <b>Description:</b> Complete and implement the TMDL	RWQCB-6	Alpine County	completed TMDL	1/1/07 to	1/1/10

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Pre-Implementation 2.019-1	MAA and WQMP with BLM	<b>Objective:</b> Continue development of MAA and WQMP with the Bureau of Land Management (BLM). <b>Description:</b> Facilitate meetings, and negotiate terms of MAA and appropriate WQMP with BLM staff	SWRCB	Statewide, BLM lands	Completed MAA and WQMP	7/1/03 to 6/30/08
Pre-Implementation 4.090-2	TMDL for Siltation, Walker Creek	<b>Objective:</b> Develop TMDL for sediments for Walker Creek <b>Description:</b> Develop TMDL for sediment from agricultural lands on Walker Creek, major tributary to Tomales Bay	RWQCB-2	Marin County	Reports and Basin Plan amendment	6/30/05 to 4/30/07
Pre-Implementation 4.091-2	TMDL for Mercury, Walker Creek	<b>Objective:</b> Develop TMDL for mercury for Walker Creek <b>Description:</b> Develop TMDL for mercury from old mercury mine in upper watershed of Walker Creek, major tributary to Tomales Bay	RWQCB-2	Marin County	Reports and Basin Plan amendment	7/1/03 to 3/31/05
Pre-Implementation 4.092-2	TMDL for Siltation, Petaluma River	<b>Objective:</b> Develop TMDL for sediments in Petaluma River watershed <b>Description:</b> Develop TMDL for sediment from agricultural activities (dairies, ranching, vineyards)	RWQCB-2	Sonoma County	Reports and Basin Plan amendment	7/1/04 to 6/30/07
Pre-Implementation 5.124	Evaluate grazing areas for BMPs	<b>Objective:</b> Optimize effectiveness of grazing BMPs for water quality protection <b>Description:</b> Inspect facilities and evaluate BMP implementation summary reports to determine implementation and effectiveness of BMPs	RWQCB-3	Regionwide RB3	Improved surface water discharge/runoff from grazing lands	7/1/03 to 6/30/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Pre-Implementation 8.005-1	Arroyo Pasajero CRMP - Domingene Watershed Assessment	<b>Objective:</b> Provide technical assistance to the development of the Domingene Watershed Assessment  <b>Description:</b> Provide technical assistance to the CRMP in the development of the Domingene Watershed Assessment	RWQCB-5F	Westside of Tulare Lake Basin	Completion of the Watershed Assessment	12/31/03 to 12/31/05
Pre-Implementation 9.008	Rangeland Water Quality Management Plan	<b>Objective:</b> Outreach, education, technical assistance, monitoring.  <b>Description:</b> Outreach, education, monitoring	RWQCB-5R	Sacramento River watershed	completion of outreach and monitoring.	7/1/03 to 6/30/08
Implement 11.14-1	Rangeland BMPS West Walker River	<b>Objective:</b> To improve watershed conditions in a grazed area  <b>Description:</b> implementing rangeland BMPs such as installing fencing, changes in grazing patterns, directing access, revegetation	RWQCB-6	Mono County	instream and riparian habitat improvement	8/1/99 to 12/31/03
Implement 11.34	Bodie Creek Metals TMDL	<b>Objective:</b> watershed restoration through the TMDL program  <b>Description:</b> Complete and implement the TMDL	RWQCB-6	Mono County	completed TMDL	1/1/02 to 1/1/05
Implement 2.018-31	U.C. Rangeland Water Quality Workshops, Task 3	<b>Objective:</b> Educate rangeland owners, ranch operators, and others about protecting rangeland water quality through improved grazing practices and monitoring.  <b>Description:</b> Plan and conduct workshops	SWRCB	Statewide Private Rangelands	Completed workshops; improved practices	1/1/01 to 6/30/08
Implement 2.018-41	U.C. Rangeland Water Quality Workshops, Task 4	<b>Objective:</b> Educate rangeland owners, ranch operators, and others about protecting rangeland water quality through improved grazing practices and monitoring.  <b>Description:</b> Survey workshops and participants regarding practice implementation.	SWRCB	Statewide, Private Rangelands	Completed survey	7/1/03 to 6/30/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 2.020	Range Management Advisory Committee	<b>Objective:</b> Work with RMAC to resolve deficiencies in the Rangeland Water Quality Management Plan (RWQMP)  <b>Description:</b> Participate in the Range Management Advisory Committee (RMAC) to the BOF	SWRCB	Statewide, Private Rangelands	Improvements in RWQMP and consistency with NPS Plan	7/1/03 to 6/30/08
Implement 4.001-2	TMDL for siltation, Napa River	<b>Objective:</b> Develop and implement TMDL for siltation at Napa River Watershed  <b>Description:</b> Develop and implement TMDL for siltation in Napa River Watershed	RWQCB-2	Napa County	Completed TMDL, project report, final report, Basin Plan amendment.	7/1/03 to 5/31/05
Implement 4.002-2	TMDL for siltation, Sonoma Creek	<b>Objective:</b> Develop and implement TMDL for siltation in Sonoma Creek  <b>Description:</b> Develop and implement TMDL for siltation in Sonoma Creek Watershed	RWQCB-2	Sonoma Creek Watershed	Preliminary and final project reports, Basin Plan amendment	7/1/03 to 6/30/05
Implement 4.007-2	TMDL for Siltation, Pescadero Butano	<b>Objective:</b> Develop and implement TMDL for siltation in Pescadero and Butano watersheds  <b>Description:</b> Develop and implement TMDL for siltation in Pescadero/Butano Watersheds	RWQCB-2	San Mateo County	Preliminary and final project reports, Basin Plan amendment	7/1/04 to 6/30/07
Implement 4.008-2	TMDL for Siltation, Lagunitas Creek	<b>Objective:</b> Develop and implement TMDL for siltation at Lagunitas Creek  <b>Description:</b> Develop and implement TMDL for Lagunitas Creek	RWQCB-2	Lagunitas Creek	Preliminary and final project reports, Basin Plan amendment	6/1/04 to 4/30/07

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 4.009-2	TMDL for Siltation, San Gregorio Creek	<b>Objective:</b> Develop and implement TMDL for siltation at San Gregorio Creek  <b>Description:</b> Develop and implement TMDL for San Gregorio Creek	RWQCB-2	San Gregorio Creek	Preliminary and final project reports, Basin Plan amendment	7/1/04 to 6/30/07
Implement 4.014-2	Manage contract on equestrian manure management	<b>Objective:</b> Oversee contract on equestrian manure management  <b>Description:</b> Contract will implement equestrian Waste Management Demo Sites and develop a Manure Management Strategy.	RWQCB-2	Alameda, Marin, San Mateo, Sonoma Counties	Completion of demonstration sites, preparation of factsheets and articles	7/1/03 to 12/31/03
Implement 4.019-3	TMDL for Pathogens, Napa River	<b>Objective:</b> Develop and implement TMDL for pathogens on the Napa River  <b>Description:</b> Develop and implement TMDLs for Napa River and Sonoma Creek	RWQCB-2	Napa County	Completion of TMDL	6/1/04 to 4/30/06
Implement 4.024-2	TMDL for nutrients, Tomales Bay	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement nutrient TMDL for Tomales Bay	RWQCB-2	Marin County	Preliminary and final TMDL reports, Basin Plan amendment	7/1/04 to 6/30/07
Implement 4.031-1	Manage contract on grazing practices	<b>Objective:</b> Oversight of contract to address grazing practices and pollution prevention  <b>Description:</b> Oversee contract and product development	RWQCB-2	Alameda County	Completion of erosion control projects, field tours.	7/1/03 to 6/30/04

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 5.125-1	Assist BMP implementation on state and federal lands	<b>Objective:</b> Optimize effectiveness of erosion control and grazing BMPs on public lands to assure water quality protection and to provide example of implementation for private land owners.  <b>Description:</b> Assist state and federal agencies in developing, implementing and evaluating the effectiveness of water quality plans for public lands.	RWQCB-3	Regionwide RB3	Improved surface water discharge/runoff from public lands	7/1/03 to 6/30/08
Implement 9.019-1	Upper Pit River Watershed Enhancement and Protection Program	<b>Objective:</b> Riparian restoration and fencing projects.  <b>Description:</b> Riparian restoration and fencing projects	RWQCB-5R	Modoc and Lassen Counties	Enhanced riparian function and habitat. Installation of protective fencing	7/1/03 to 6/30/08
Track/Monitor 11.59	Upper Truckee River Grazing Monitoring	<b>Objective:</b> To use monitoring data to provide feedback for improved BMPs.  <b>Description:</b> NPS water quality monitoring upstream and downstream of grazing areas.	RWQCB-6	El Dorado County	Data that shows no impact from grazing.	7/1/03 to 6/30/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

<b>Management Measure: 1F Irrigation Water Management</b>						
<b>Process Element</b>	<b>Activity Name</b>	<b>Activity Objective and Description</b>	<b>Agency</b>	<b>Location</b>	<b>Success Criteria</b>	<b>Schedule</b>
Pre-Implementation 10.078	San Luis Drain Oxygen Demand Reduction Project	<p><b>Objective:</b> Reduce algal inputs from San Luis Drain to San Joaquin River</p> <p><b>Description:</b> Conduct an investigation of algal growth patterns and nutrient concentrations in the San Luis Drain (SLD) to determine what is currently limiting algal growth in this system; and determine what engineering approach (e.g. precipitation, sequestration, filtration, etc.) could be used to remove this limited nutrient from agricultural water entering the SLD. Conduct laboratory and field studies to determine which approach will be most effective for controlling algae under the unique conditions of the SLD. The results of this study will be integrated with other studies examining the treatment of agricultural drainage and used in the conceptual design of a full-scale treatment process for agricultural waste entering the SLD.</p>	RWQCB-5S	San Joaquin watershed	Completed investigation; reduction of algae	7/1/03 to 6/30/08
Pre-Implementation 11.27-2	Bridgeport Reservoir Nutrient TMDL	<p><b>Objective:</b> watershed restoration through the TMDL process</p> <p><b>Description:</b> Complete and implement the TMDL</p>	RWQCB-6	Mono County	completed TMDL	7/1/03 to 1/1/05
Pre-Implementation 11.39	Susan River TMDL	<p><b>Objective:</b> Watershed restoration through the TMDL program</p> <p><b>Description:</b> Complete and implement the TMDL for unknown toxicity</p>	RWQCB-6	Lassen County	completed TMDL	1/1/04 to 1/1/07

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Pre-Implementation 2.023	Drainage Management and Control	<b>Objective:</b> Support drainage management and control activities through participation in the San Joaquin Valley Drainage Implementation Program (SJVDIP) and San Joaquin Valley Drainage Authority (SJVDA).  <b>Description:</b> Participate in the San Joaquin Valley Drainage Implementation Program (SJVDIP) and San Joaquin Valley Drainage Authority (SJVDA).	SWRCB	Westside San Joaquin Valley/Tulare Basin	Coordination achieved and projects implemented	7/1/03 to 6/30/08
Pre-Implementation 33.005	Toxic Elements in Ground Water	<b>Objective:</b> Manage and reduce toxic elements in drainage water.  <b>Description:</b> Develop methods and practices to manage and reduce toxic elements in drainage water.	DFA	San Joaquin Valley	Documentation of feasible methods.	7/1/03 to 6/30/06
Pre-Implementation 10.081	Orestimba Creek Watershed - Ag Water Quality Pilot Project	<b>Objective:</b> Reduce pesticide and nutrient contamination in Orestimba Creek.  <b>Description:</b> Initiate planning and design of management practices on commercial farming operations and treatment technologies with high potential for reducing or eliminating pesticide, nutrient and other contaminant loads carried by irrigation return flows into the Orestimba Creek and subsequently the SJR.	RWQCB-5S	Orestimba Creek	Development and design of a filtration treatment system.	7/1/04 to 6/30/07
Implement 10.028	San Joaquin River Salt and Boron TMDL	<b>Objective:</b> Meet salt and boron objectives in the San Joaquin River  <b>Description:</b> TMDL implementation is scheduled to start in 2003. More information at: <a href="http://www.swrcb.ca.gov/~rwqcb5/programs/tmdl/Salt_Boron.htm">http://www.swrcb.ca.gov/~rwqcb5/programs/tmdl/Salt_Boron.htm</a>	RWQCB-5S	San Joaquin River watershed	Reduction in salt and boron loads to the San Joaquin River.	7/1/03 to 6/30/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 10.076	Control of Agricultural Runoff	<p><b>Objective:</b> Improve quality of water discharged into the Turlock Irrigation District system.</p> <p><b>Description:</b> Requiring that all discharges meet the applicable local, state or federal water quality standards at the point of discharge into the system. The program focuses on ensuring the grower has both the physical and operational tools necessary to meet water quality standards at the point where it leaves the field and enters the TID system.</p>	RWQCB-5S	San Joaquin watershed	Outreach program and on-farm improvements implemented.	7/1/04 to 6/30/07
Implement 18.002-2	Rice Pesticides Program	<p><b>Objective:</b> Reduce rice pesticide loading in Sacramento and San Joaquin basins</p> <p><b>Description:</b> Develop and implement management methods for water in treated fields to reduce or eliminate discharges; develop and implement methods to reduce drift from applications</p>	CDPR	Sacramento & San Joaquin Valleys	No violations of water quality objectives	7/1/03 to 6/30/08
Implement 18.004	Chemigation outreach	<p><b>Objective:</b> Develop mobile outreach program to demonstrate approved chemigation systems to prevent groundwater contamination</p> <p><b>Description:</b> Develop mobile outreach program to demonstrate approved chemigation systems to prevent groundwater contamination</p>	CDPR	Central Valley	Mobile outreach programs	7/1/03 to 6/30/08
Implement 19.002-2	Napa Vineyard Erosion Control Watershed Project	<p><b>Objective:</b> Using compost and mulch in hillside vineyard growing operations to mitigate erosion of sediments into local watershed.</p> <p><b>Description:</b> Promote systematic use of compost and mulch to vineyards in Napa Watershed and disseminate outreach information on application techniques.</p>	CIWMB	Napa	Increased utilization of compost and mulch in normal vineyard growing operations.	7/1/03 to 7/1/05

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 2.024	SB 1372 Regulations	<b>Objective:</b> Develop regulations for design, construction, operation and closure of solar evaporators at Integrated On-farm Drainage Management facilities pursuant to SB 1372. <b>Description:</b> Develop new regulations	SWRCB	Westside San Joaquin Valley/Tulare Basin	Adoption and successful implementation of new regulations	7/1/03 to 6/30/08
Implement 5.122	Evaluate irrigated ag areas for MP effectiveness	<b>Objective:</b> Implementation of BMPs to reduce/eliminate water quality impacts associated with irrigated agriculture <b>Description:</b> Inspect facilities and evaluate BMP implementation summary reports to determine implementation and effectiveness of BMPs	RWQCB-3	Regionwide RB3	Zero discharge of ag irrigation tail water to surface waters	7/1/03 to 6/30/08
Implement 6.052-2	TMDL Implentation for Santa Clara River-Chloride	<b>Objective:</b> MP implementation <b>Description:</b> Develop TMDL implementation plan and reshedule of implementation	RWQCB-4	Ventura County	Delisting on 303 (d) list	7/1/03 to 6/30/08
Implement 7.037	Irrigation Return Flow Agricultural Waiver Program	<b>Objective:</b> To manage discharges from irrigated lands to assure that such discharges do not cause or contribute to conditions of pollution or nuisance as defined in Section 13050 of the California Water Code and do not cause or contribute to exceedances of any Regional, State, or Federal numeric or narrative water quality standard. <b>Description:</b> This waiver would set forth two categories of waivers of WDRs. 1) dischargers who participate in a group effort on a watershed level to comply with the conditions of the waiver. 2) individual dischargers who do not participate in a group watershed or subwatershed effort. The dischargers must comply with the waiver conditions.	RWQCB-5	Central Valley	Implementation of waivers for irrigated agriculture	7/1/03 to 6/30/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Report 2.022	MPs for Selenium Control	<p><b>Objective:</b> Support development of management practices (MPs) for control of selenium in agricultural drainage through contracts with UC.</p> <p><b>Description:</b> Research and pilot projects contracts. Develop final reports detailing implementable selenium management and regulation processes</p>	SWRCB	Westside San Joaquin Valley/Tulare Basin	Final reports detailing implementable selenium management and regulation processes	7/1/03 to	3/1/05
Report 6.061	ACL 98-079 Las Virgines MWD SEP	<p><b>Objective:</b> Study irrigation and fertilization methods to quantify the benefits of reclaimed water use in Lake Sherwood.</p> <p><b>Description:</b> The field tests will evaluate the efficacy of water blending and improved drainage in comparison with use of potable water. The objective is to maintain a low level of salt (&lt;700 ppm) in the root zone which will sustain healthy, playable turf year round. Test variables will be drainage and water type (reclaimed, potable and fertilizer applied water). The waters will be sampled quarterly to verify whether or not the nutrient content of reclaimed water will offset fertilizer costs.</p>	RWQCB-4	Calabasas	Quarterly sampling. Completed Efficacy Evaluation	7/1/03 to	6/30/04

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

<b>Management Measure: 1G Education/Outreach</b>							
<b>Process Element</b>	<b>Activity Name</b>	<b>Activity Objective and Description</b>	<b>Agency</b>	<b>Location</b>	<b>Success Criteria</b>	<b>Schedule</b>	
Pre-Implementation 2.003	Statewide Training for BMP Related Permit Coordination	<b>Objective:</b> Statewide Training for BMP Related Permit Coordination in Priority Watersheds/Sustainable Conservation  <b>Description:</b> Revise Scope of Work (SOW) and budget	SWRCB	Multiple counties	Approved SOW and budget	6/1/03 to	7/1/04
Pre-Implementation 2.014-2	Promote Management Practices	<b>Objective:</b> Reduce pesticides in both agricultural and urban surface waters through local outreach to promote MPs that reduce pesticide runoff and through CDPR's registration process.  <b>Description:</b> Fund and assist in pesticide control applicator and grower training promoting pesticide management. Mitigate impacts through self-regulation as well as regulatory authorities of CDPR, SWRCB, and RWQCB.	SWRCB	Statewide	Completion of MP, effective research	7/1/03 to	6/30/08
Pre-Implementation 27.012-1	RCD Watershed Coordinator Grants - Phase III	<b>Objective:</b> Document progress achieved with phase III of Resource Conservation Districts (RCD) watershed coordinator grants.  <b>Description:</b> Administer RCD watershed coordinator grant program to provide funding to California RCDs to hire watershed coordinators.	DOC	Statewide	Performance measures completed in individual RCD watershed coordinator grants.	7/1/03 to	6/30/08
Pre-Implementation 4.015-3	Marin-Sonoma Animal Resources Committee	<b>Objective:</b> To provide technical assistance to Sonoma-Marine Animal Resources Committee  <b>Description:</b> Technical input and regulatory oversight related to dairies and other confined animal facilities	RWQCB-2	Marin and Sonoma Counties	Communication with dairy producers	7/1/03 to	12/31/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Pre-Implementation 4.020-2	TMDL for Pathogens, Petaluma River	<b>Objective:</b> Develop and implement TMDL for pathogens in Petaluma River  <b>Description:</b> Develop and implement TMDL for Petaluma River	RWQCB-2	Sonoma County	Preliminary and final reports, Basin Plan amendment	6/30/04 to 4/30/06
Pre-Implementation 4.027-2	TMDL for nutrients, Napa River	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement TMDL for nutrients for Napa River watershed	RWQCB-2	Napa County	Completed TMDL, quantifiable pollutant reduction goals	7/1/03 to 5/30/05
Pre-Implementation 4.087-3	TMDL for Pathogens, Sonoma Creek	<b>Objective:</b> Develop TMDL for mercury in San Francisco Bay  <b>Description:</b> Preliminary and final reports and prepare Basin Plan amendment	RWQCB-2	Sonoma County	Reports and Basin Plan amendment	6/30/04 to 4/30/06
Implement 11.14-2	Rangeland BMPS West Walker River	<b>Objective:</b> To improve watershed conditions in a grazed area  <b>Description:</b> implementing rangeland BMPs such as installing fencing, changes in grazing patterns, directing access, revegetation	RWQCB-6	Mono County	instream and riparian habitat improvement	8/1/99 to 12/31/03
Implement 19.002-3	Napa Vineyard Erosion Control Watershed Project	<b>Objective:</b> Using compost and mulch in hillside vineyard growing operations to mitigate erosion of sediments into local watershed.  <b>Description:</b> Promote systematic use of compost and mulch to vineyards in Napa Watershed and disseminate outreach information on application techniques.	CIWMB	Napa	Increased utilization of compost and mulch in normal vineyard growing operations.	7/1/03 to 7/1/05

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 2.018-32	U.C. Rangeland Water Quality Workshops, Task 3	<b>Objective:</b> To improve rangeland water quality protection through education of rangeland owners and operators.  <b>Description:</b> Educate rangeland owners, ranch operators, and others about protecting rangeland water quality through improved grazing practices and monitoring.	SWRCB	Statewide, Private Rangelands	Improved grazing practices and effective monitoring	1/1/01 to 6/30/08
Implement 2.018-42	U.C. Rangeland Water Quality Workshops, Task 4	<b>Objective:</b> To improve rangeland water quality protection through education of rangeland owners and operators.  <b>Description:</b> Educate rangeland owners, ranch operators, and others about protecting rangeland water quality through improved grazing practices and monitoring.	SWRCB	Statewide, Private Rangelands		7/1/03 to 6/30/08
Implement 2.018-52	U.C. Rangeland Water Quality Workshops, Task 5	<b>Objective:</b> To improve rangeland water quality protection through education of rangeland owners and operators.  <b>Description:</b> Educate rangeland owners, ranch operators, and others about protecting rangeland water quality through improved grazing practices and monitoring.	SWRCB	Statewide, Private Rangelands		7/1/03 to 6/30/08
Implement 3.12-2	Fish Friendly Farming	<b>Objective:</b> Promote vineyard construction, operation, and maintenance in a manner that is protective of water quality - to improve water quality and to restore and sustain habitat for federally listed salmonids.  <b>Description:</b> outreach/educational activities; farm conservation plan review; site inspections	RWQCB-1	Sonoma and Mendocino Counties	Improved water quality	1/1/02 to 6/30/08

**Table IIIB**  
**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 4.001-3	TMDL for siltation, Napa River	<b>Objective:</b> Develop and implement TMDL for siltation at Napa River Watershed  <b>Description:</b> Develop and implement TMDL for siltation in Napa River Watershed	RWQCB-2	Napa County	Completed TMDL, project report, final report, Basin Plan amendment.	7/1/03 to 5/31/05
Implement 4.002-3	TMDL for siltation, Sonoma Creek	<b>Objective:</b> Develop and implement TMDL for siltation in Sonoma Creek  <b>Description:</b> Develop and implement TMDL for siltation in Sonoma Creek Watershed	RWQCB-2	Sonoma Creek Watershed	Preliminary and final project reports, Basin Plan amendment	7/1/03 to 6/30/05
Implement 4.007-3	TMDL for Siltation, Pescadero/Butano	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement TMDL for siltation in Pescadero/Butano Watersheds	RWQCB-2	San Mateo County	Preliminary and final project reports, Basin Plan amendment	7/1/04 to 6/30/07
Implement 4.008-3	TMDL for Siltation, Lagunitas Creek	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement TMDL for Lagunitas Creek	RWQCB-2	Lagunitas Creek	Preliminary and final project reports, Basin Plan amendment	6/1/04 to 4/30/07
Implement 4.009-3	TMDL for Siltation, San Gregorio Creek	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement TMDL for San Gregorio Creek	RWQCB-2	San Gregorio Creek	Preliminary and final project reports, Basin Plan amendment	7/1/04 to 6/30/07

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**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 4.013-2	Manage contract on citizen monitoring	<b>Objective:</b> Oversight of contract to do citizen monitoring and to implement restoration project(s) to reduce sediment loading.  <b>Description:</b> Grant to do citizen monitoring in the watershed related to nonpoint source pollution, including sedimentation and urban runoff	RWQCB-2	Marin County	Citizen monitoring teams created, sediment control project completed	7/1/03 to 12/31/05
Implement 4.019-2	TMDL for Pathogens, Napa River	<b>Objective:</b> Develop and implement TMDL for pathogens on the Napa River  <b>Description:</b> Develop and implement TMDLs for Napa River and Sonoma Creek	RWQCB-2	Napa County	Completion of TMDL	6/1/04 to 4/30/06
Implement 4.021-2	TMDL for Pathogens, Tomales Bay	<b>Objective:</b> Develop and implement TMDL for pathogens on Tomales Bay  <b>Description:</b> Develop and implement TMDL for Tomales Bay	RWQCB-2	Marin County	Final report, Basin Plan amendment	7/1/03 to 11/30/03
Implement 4.022-2	TMDL for nutrients, Petaluma River	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement TMDL for nutrients in Petaluma River watershed	RWQCB-2	Sonoma County	Preliminary and final reports, Basin Plan amendment	7/1/04 to 6/30/07
Implement 4.023-2	TMDL for nutrients, Walker Creek	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement TMDL for nutrients in Walker Creek watershed	RWQCB-2	Marin County	Completed TMDL reports, Basin Plan amendment	7/1/04 to 6/30/07

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**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 4.024-3	TMDL for nutrients, Tomales Bay	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement nutrient TMDL for Tomales Bay	RWQCB-2	Marin County	Preliminary and final TMDL reports, Basin Plan amendment	7/1/04 to 6/30/07
Implement 4.026-2	TMDL for nutrients, Suisun Marsh	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement TMDL for Suisun Marsh	RWQCB-2	Solano County	TMDL preliminary and final reports, Basin Plan amendment	6/1/06 to 6/30/08
Implement 4.028-2	TMDL for nutrients, Sonoma Creek	<b>Objective:</b> Develop and implement TMDL  <b>Description:</b> Develop and implement TMDL for nutrients for Sonoma Creek	RWQCB-2	Sonoma County	Completed TMDL, quantifiable pollutant reduction goals	7/1/03 to 6/30/05
Implement 4.031-3	Manage contract on grazing practices	<b>Objective:</b> Oversight of contract to address grazing practices and pollution prevention  <b>Description:</b> Oversee contract and product development	RWQCB-2	Alameda County	Completion of erosion control projects, field tours.	7/1/03 to 6/30/04
Implement 4.032	Manage contract for benthic macroinvert monitoring	<b>Objective:</b> Oversee contract to develop and Implement citizen monitoring program for benthic macroinvertebrates  <b>Description:</b> Citizen monitoring	RWQCB-2	Napa County	Completion of monitoring	7/1/03 to 6/30/05
Implement 4.033-2	Manage contract for sediment reduction in Sonoma Creek	<b>Objective:</b> Oversee contract to complete sediment reduction projects along Sonoma Creek  <b>Description:</b> Project will implement three sediment reduction projects and develop sediment budget for TMDL on Sonoma Creek	RWQCB-2	Sonoma County	Completion of projects	7/1/03 to 3/30/05

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**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 4.078-3	Manage contract for vineyard certification program	<b>Objective:</b> Oversight of contract that will develop a vineyard certification program in Napa County  <b>Description:</b> The Napa RCD will implement a vineyard operator certification program similar to the successful "Fish Friendly Farming" program on the North Coast. Vineyard operators will be given planning courses and develop individual facility plans that will be implemented through specific conservation practices.	RWQCB-2	Napa County	Reduction in sediment to creeks, reduction in pesticide use	7/1/03 to 12/31/06
Implement 4.084-3	Manage contract on Lagunitas Creek watershed improvement	<b>Objective:</b> Oversee contract on development of limiting factors for salmonid fishery on prime coho salmon stream and implementation of erosion control projects  <b>Description:</b> This project will implement erosion and sediment control projects on San Geronimo and Lagunitas Creeks and conduct a limiting factors assessment to support upcoming TMDLs	RWQCB-2	Marin County	Projects implemented, limiting factors identified	7/1/03 to 12/31/06

**Management Measure: 1H Used Oil - Hazardous Waste Management**

Process Element	Activity Name	Activity Objective and Description	Agency	Location	Success Criteria	Schedule
Implement 19.008	Agricultural Used Oil Collection	<b>Objective:</b> To reclaim waste oil generated by the agricultural sector and reduce non point source waste oil pollution by establishing agricultural used oil collection facilities within CA counties.  <b>Description:</b> Provide local governments with grants to: 1) collect stockpiled waste oil from small acreage growers/ranchers; 2) establish agricultural used oil collection facilities or mobile collection programs in an additional 5 counties; 3) Educate growers about used oil collection programs.	CIWMB	Statewide	Five additional ag used oil collection programs established	1/1/03 to 12/31/07

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**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

<b>Management Measure: All-A All Agriculture Measures</b>						
<b>Process Element</b>	<b>Activity Name</b>	<b>Activity Objective and Description</b>	<b>Agency</b>	<b>Location</b>	<b>Success Criteria</b>	<b>Schedule</b>
Pre-Implementation 15.015	Update Waste Discharge Requirements for commercial nurseries	<p><b>Objective:</b> Update Waste Discharge Requirements (WDRs) for commercial nurseries</p> <p><b>Description:</b> Update Waste Discharge Requirements for commercial nurseries, as part of Newport Bay TMDL.</p>	RWQCB-8	Newport Bay Watershed	Updated WDRs	7/1/03 to 6/30/08
Pre-Implementation 33.004-2	NPS Pollution in Pest Eradication Programs	<p><b>Objective:</b> Minimize/avoid NPS pollution in pest eradication programs. Consult with RWQCBs and SWRCB when developing programs.</p> <p><b>Description:</b> Consultation.</p>	DFA	Statewide	Avoidance of pesticide contamination.	7/1/03 to 6/30/08
Pre-Implementation 5.016	Identify target/high priority agricultural projects	<p><b>Objective:</b> Identify target projects based on watershed management and TMDL implementation plans. Projects to provide cost-share for BMP Implementation to address sediment, nutrient, pesticide run-off, and other ag related issues.</p> <p><b>Description:</b> Identify and target priority ag projects to support implementation of those projects. Provide technical assistance and participate in development of watershed agriculture working groups to facilitate implementation of regional Ag Water Quality Management Plan.</p>	RWQCB-3	Regionwide RB3	Priority projects implemented	7/1/03 to 6/30/08
Pre-Implementation 5.018	Assist in identifying funding sources for priority projects	<p><b>Objective:</b> To provide technical assistance and to participate in development of watershed agriculture working groups to facilitate implementation of regional Ag Water Quality Management Plan.</p> <p><b>Description:</b> Identify funding sources and support funding for priority projects.</p>	RWQCB-3	Regionwide RB3	Fund priority projects	7/1/03 to 6/30/08

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**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Pre-Implementation 5.101	Develop/update Ag. water quality mgnt. plan	<p><b>Objective:</b> Develop/update Ag regulatory program</p> <p><b>Description:</b> Creation of the Plan includes; Convene an Ag advisory panel, develop conditions for compliance, develop a monitoring and reporting program. Develop a tracking, outreach and enforcement policy to go with the Ag Water Quality mgnt. Plan</p>	RWQCB-3	Regionwide RB3	Creation of the Plan	7/1/03 to 6/30/08
Pre-Implementation 5.102	Assist working watershed ag. group formation-Pajaro	<p><b>Objective:</b> Interagency and stakeholder coordination to involve land use managers in UCCE farm water quality management plans, the development of individual ranch management plans, and BMP tracking.</p> <p><b>Description:</b> Creation of the Plan includes; Convene an Ag advisory panel, develop conditions for compliance, develop a monitoring and reporting program. Develop a tracking, outreach and enforcement policy to go with the Ag Water Quality mgnt. Plan</p>	RWQCB-3	Pajaro River Watershed	Widespread participation in courses and development of management plans.	7/1/03 to 6/30/08
Pre-Implementation 5.103	Assist working watershed ag. group formation-San Benito	<p><b>Objective:</b> Interagency and stakeholder coordination to involve land use managers in UCCE farm water quality management plans</p> <p><b>Description:</b> The development of individual ranch management plans, and BMP tracking.</p>	RWQCB-3	San Benito River Watershed	Widespread participation in courses and development of management plans.	7/1/03 to 6/30/08
Pre-Implementation 5.104	Assist working watershed ag. group formation-Other NWMA	<p><b>Objective:</b> To provide technical assistance and to participate in development of watershed agriculture working groups to facilitate implementation of regional Ag Water Quality Management Plan.</p> <p><b>Description:</b> Interagency and stakeholder coordination to involve land use managers in UCCE farm water quality management plans, the development of individual ranch management plans, and BMP tracking.</p>	RWQCB-3	Other Northern Watersheds	Widespread participation in courses and development of management plans.	7/1/03 to 6/30/08

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**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Pre-Implementation 5.105	Assist working watershed ag. group formation-Salinas	<b>Objective:</b> Interagency and stakeholder coordination to involve land use managers in UCCE farm water quality management plans, the development of individual ranch management plans, and MP tracking. <b>Description:</b>	RWQCB-3	Salinas River Watershed	Widespread participation in courses and development of management plans.	7/1/03 to 6/30/08
Pre-Implementation 5.106	Agriculture watershed group formation-Elkhorn Sough	<b>Objective:</b> Interagency and stakeholder coordination to involve land use managers in UCCE farm water quality management plans. <b>Description:</b> The development of individual ranch management plans, and BMP tracking.	RWQCB-3	Elkhorn Slough Watershed	Widespread participation in courses and development of management plans.	7/1/03 to 6/30/08
Pre-Implementation 5.107	Assist working watershed ag. group formation-San Luis Obispo	<b>Objective:</b> Interagency and stakeholder coordination to involve land use managers in UCCE farm water quality management plans, the development of individual ranch management plans, and BMP tracking. <b>Description:</b>	RWQCB-3	San Luis Obispo Creek Watershed	Widespread participation in courses and development of management plans.	7/1/03 to 6/30/08
Pre-Implementation 5.108	Assist working watershed ag. group formation-Carmel	<b>Objective:</b> Interagency and stakeholder coordination to involve land use managers in UCCE farm water quality management plans <b>Description:</b> The development of individual ranch management plans, and BMP tracking.	RWQCB-3	Carmel River Watershed	Widespread participation in courses and development of management plans.	7/1/03 to 6/30/08
Pre-Implementation 5.109	Assist working watershed ag. group formation-Arroyo Grande	<b>Objective:</b> Interagency and stakeholder coordination to involve land use managers in UCCE farm water quality management plans, the development of individual ranch management plans, and BMP tracking. <b>Description:</b> Provide technical assistance and participate in the development of watershed agriculture working groups to facilitate implementation of regional Ag Water Quality Management Plan.	RWQCB-3	Arroyo Grande Creek Watershed	Widespread participation in courses and development of management plans.	7/1/03 to 6/30/08

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Pre-Implementation 5.110	Assist working watershed ag. group formation-Other CWMA	<p><b>Objective:</b> Interagency and stakeholder coordination to involve land use managers in UCCE farm water quality management plans, the development of individual ranch management plans, and BMP tracking.</p> <p><b>Description:</b> Provide technical assistance and participate in the development of watershed agriculture working groups to facilitate implementation of regional Ag Water Quality Management Plan.</p>	RWQCB-3	Other Coastal Watersheds	Widespread participation in courses and development of management plans.	7/1/03 to 6/30/08
Pre-Implementation 5.111	Assist working watershed ag. group formation-Santa Maria	<p><b>Objective:</b> Interagency and stakeholder coordination to involve land use managers in UCCE farm water quality management plans, the development of individual ranch management plans, and BMP tracking.</p> <p><b>Description:</b> Provide technical assistance and participate in the development of watershed agriculture working groups to facilitate implementation of regional Ag Water Quality Management Plan.</p>	RWQCB-3	Santa Maria River Watershed	Widespread participation in courses and development of management plans.	7/1/03 to 6/30/08
Pre-Implementation 5.112	Assist working watershed ag. group formation-Santa Ynez	<p><b>Objective:</b> Interagency and stakeholder coordination to involve land use managers in UCCE farm water quality management plans, the development of individual ranch management plans, and BMP tracking.</p> <p><b>Description:</b> Provide technical assistance and participate in the development of watershed agriculture working groups to facilitate implementation of regional Ag Water Quality Management Plan.</p>	RWQCB-3	Santa Ynez River Watershed	Widespread participation in courses and development of management plans.	7/1/03 to 6/30/08

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**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Pre-Implementation 5.113	Assist working watershed ag. group formation-San Antonio	<p><b>Objective:</b> Interagency and stakeholder coordination to involve land use managers in UCCE farm water quality management plans, the development of individual ranch management plans, and BMP tracking.</p> <p><b>Description:</b> Provide technical assistance and participate in the development of watershed agriculture working groups to facilitate implementation of regional Ag Water Quality Management Plan.</p>	RWQCB-3	San Antonio Creek Watershed	Widespread participation in courses and development of management plans.	7/1/03 to 6/30/08
Pre-Implementation 5.114	Assist working watershed ag. group formation-Oso Flaco	<p><b>Objective:</b> Interagency and stakeholder coordination to involve land use managers in UCCE farm water quality management plans, the development of individual ranch management plans, and BMP tracking.</p> <p><b>Description:</b> Provide technical assistance and participate in the development of watershed agriculture working groups to facilitate implementation of regional Ag Water Quality Management Plan.</p>	RWQCB-3	Oso Flaco Watershed	Widespread participation in courses and development of management plans.	7/1/03 to 6/30/08
Pre-Implementation 5.115	Assist working watershed ag. group formation-South Coast	<p><b>Objective:</b> Interagency and stakeholder coordination to involve land use managers in UCCE farm water quality management plans, the development of individual ranch management plans, and BMP tracking.</p> <p><b>Description:</b> Provide technical assistance and participate in the development of watershed agriculture working groups to facilitate implementation of regional Ag Water Quality Management Plan.</p>	RWQCB-3	South Coast Watershed	Widespread participation in courses and development of management plans.	7/1/03 to 6/30/08

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**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Pre-Implementation 5.116	Assist working watershed ag. group formation-Other SWMA	<b>Objective:</b> Interagency and stakeholder coordination to involve land use managers in UCCE farm water quality management plans, the development of individual ranch management plans, and BMP tracking.  <b>Description:</b> Provide technical assistance and participate in the development of watershed agriculture working groups to facilitate implementation of regional Ag Water Quality Management Plan.	RWQCB-3	Other Southern Watersheds	Widespread participation in courses and development of management plans.	7/1/03 to 6/30/08
Pre-Implementation 5.117	Assist farm/ranch water quality plan development	<b>Objective:</b> Development of effective farm/ranch water quality plans  <b>Description:</b> Provide technical assistance in water quality plan development	RWQCB-3	Agricultural areas regionwide	Site specific water quality plans	7/1/03 to 6/30/08
Pre-Implementation 8.011	Lower Kings River Electrical Conductivity TMDL	<b>Objective:</b> Begin EC TMDL development in 2004  <b>Description:</b> Begin EC TMDL development in 2004. Basin Plan amendment will be during the next 5 year plan	RWQCB-5F	Lower Kings River	Form TMDL stakeholder group and begin monitoring	7/1/03 to 6/30/08
Pre-Implementation 8.012	Lower Kings River Molybdenum TMDL	<b>Objective:</b> Begin molybdenum TMDL development in 2004  <b>Description:</b> Begin molybdenum TMDL development in 2004. Basin Plan amendment will be during the next 5 year plan.	RWQCB-5F	Lower Kings River	Form TMDL stakeholder group and begin monitoring	7/1/03 to 6/30/08
Pre-Implementation 8.013	Lower Kings River Toxaphene TMDL	<b>Objective:</b> Begin toxaphene TMDL development in 2004  <b>Description:</b> Begin toxaphene TMDL development in 2004. Basin Plan amendment will be during next 5 year plan	RWQCB-5F	Lower Kings River	Formation of TMDL stakeholder group and monitoring	7/1/03 to 6/30/08

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**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 10.088	Glenn County Surface Water Stewardship	<b>Objective:</b> Reduce pesticide impacts to water quality in Glenn County.  <b>Description:</b> Outreach, research, and pesticide management education programs for the tributaries of the Sacramento River in Glenn County, California. The program will utilize field days, farm tours, newsletters, and the media to inform stakeholders of pesticide management programs.	RWQCB-5S	Glenn County	Completion of outreach and demonstration projects.	7/1/04 to 6/30/07
Implement 16.102	Agricultural Discharge Oversight	<b>Objective:</b> To ensure NPS pollution prevention in watersheds where agriculture land use activities take place.  <b>Description:</b> Identify and monitor potential sources of pollution from agriculture land use activities. Enforce Region 9 waitver policies.	RWQCB-9	Regionwide - Region 9	protection and restoration of water quality in areas where agriculture land use activities take place.	7/1/03 to 6/30/08
Implement 24.009	Regional Deslination Project	<b>Objective:</b> To demonstrate within a 3-year period the sustained, full-scale operation of an on-farm, tile-water recycling process that completely eliminates off-farm drainage disposal.  <b>Description:</b> Year 4 Tasks(Completion of Phase 1): 1.1 Perform Site Testing, 1.2 Investigate Brine Options, 1.3 Finalize System Design, 1.4 Prepare Interim Report. The Project will begin in Year 4 and will be completed by Year 7.	CBDA	Panoche Drainage District	Completed demonstration project.	7/1/03 to 6/30/08

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**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 24.010	Control Runoff Into Conveyances	<b>Objective:</b> Impelement Agriculture Drainage BMPs  <b>Description:</b> Implement appropriate physical modifications and watershed programs to prevent contamination from stormwater runoff and agricultural drainage. Initiate comprehensive evaluation of necessary physical modifications (e.g., modifications to berms, bypasses, and storm drains to divert stormwater away from, and prevent its discharge into, the Aqueduct and other similar conveyance channels) by the end of 2001. Develop and implement watershed programs adjacent to appropriate conveyance channels by the beginning of 2004. Identify and begin implementation of necessary physical improvements by the end of 2005.	CBDA	Bay Delta	BMP Implementation	7/1/03 to	6/30/08
Implement 3.001	Vineyard Outreach	<b>Objective:</b> Education and technology transfer for water quality issues and vineyard use of appropriate management measures.  <b>Description:</b> To visit and discuss these issues with grape growers, in the field or at invited meetings. Distribute written information.	RWQCB-1	Mostly Sonoma and Mendocino Counties	Less public complaints and need for enforcement.	7/1/98 to	6/30/08
Implement 3.002	Vineyard Inspections	<b>Objective:</b> To determine compliance with Basin Plan waste discharge prohibitions.  <b>Description:</b> Conduct pre-construction inspections and complaint inspections.	RWQCB-1	Mostly Sonoma and Mendocino Counties	Less Basin Plan violations.	7/1/98 to	6/30/08
Implement 3.003	Vineyard Enforcement	<b>Objective:</b> To gain compliance with Federal and State water quality regulations.  <b>Description:</b> Formal and staff Basin Plan enforcement actions.	RWQCB-1	Mostly Sonoma and Mendocino Counties	Compliance.	7/1/98 to	6/30/08

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**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Implement 3.01	Vineyard task force	<b>Objective:</b> Development of geographic/geologic region-specific vineyard guidelines that will ensure compliance with all applicable water quality standards <b>Description:</b> Participate in statewide meetings. Several regions (including Region 1) already have or work with area specific guidelines. Product from this group may be guidelines for areas not already specifically addressed.	RWQCB-1	Statewide	Vineyard guidelines; Basin Plan compliance	1/1/03 to 6/30/08
Implement 3.011	Dairies	<b>Objective:</b> To bring dairies into compliance with Federal and State water quality regulations. <b>Description:</b> All staff activities for dairy outreach, complaint inspections, and enforcement.	RWQCB-1	Mostly Sonoma and Humboldt Counties	Compliance with Basin Plan waste discharge prohibitions and water quality objecties.	7/1/98 to 6/30/08
Implement 5.020	Assist priority projects implementation	<b>Objective:</b> To provide technical assistance and to participate in development of watershed agriculture working groups to facilitate implementation of regional Ag Water Quality Management Plan. <b>Description:</b> Provide technical assistance for priority project implementation	RWQCB-3	Regionwide RB3	Priority project implementation	7/1/03 to 6/30/08
Implement 5.118	Assist farm/ranch water quality plan implementation	<b>Objective:</b> Implementation of effective farm/ranch water quality plans <b>Description:</b> Assist with implementation of BMPs consistent with water quality plans	RWQCB-3	Agricultural areas regionwide	Increased BMP implementation	7/1/03 to 6/30/08
Track/Monitor 5.120	Assist grower self-monitoring program development	<b>Objective:</b> Assist in development of watershed-wide self monitoring programs <b>Description:</b> Participate in TAC meetings and provide technical assistance in monitoring plan development	RWQCB-3	Regionwide RB3	Development of effective ag. self monitoring programs	7/1/03 to 6/30/08

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**ACTIVITY SUMMARIES FOR NPS LAND USE CATEGORIES**

Track/Monitor 6.016	Use of Improved Tech. and BMP's to Control of Nursery Runoff	<b>Objective:</b> Agriculture Control  <b>Description:</b> Address agricultural runoff in Region with a focus on nurseries through inspections of facilities, outreach, voluntary implementation of BMPs, and monitoring to assess success. Concentrate on nurseries in Ventura County where pesticide use is impacting coastal waters.	RWQCB-4	Regionwide RB4	Will be finalized at contract approval time	7/1/03 to 6/30/06
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